CONSTRUCTION NEWS

Some of the Week's Large Projects

AMONG the announcements for the current week are the following:

Proposed Work

Schools, St. Louis, Mo., Bd. Educ., c/o Superintendent of Instruction Maddox, sketches, $10,450,000.

Sewers, Michigan, Oakland, Macomb, Lapeer and St. Clair Counties, $9,000,000.

Gas line, Tennessee, Memphis Natural Gas Co., subsidiary Union Utilities Inc., New York, surveys, $8,000,000.

Incinerators, New York, N. Y., Bd. Estimate & Apportionment, $5,000,000 voted.

Office, St. Louis, Mo., J. M. Robertson, $3,500,000.

Bridge, Lima, O., preliminary survey, $3,000,000.

Heating plant, Cincinnati, O., Union Gas & Electric Co., $2,000,000.

Hospital, Newark, N. J., Newark Memorial Hospital, sketches, $1,250,000.

Factory, Kearny (sta. Arlington), N. J., Western Electric Co., New York, soon lets contract, $1,250,000.

Hospital, St. Louis, Mo., City, c/o Bd. P. Service, bids early in 1929, $1,200,000.

Hotel, New York, N. Y., New York City Baptist Mission Society, $1,100,000.

Hotel, Rochester, N. Y., J. Jorastow, $1,000,000.

Roads, Clarendon, Tex., Donley Co., defeated $1,000,000.

College, New York, N. Y., Columbia University, $1,000,000.

Temple, St. Louis, Mo., Jewish Congregation, sketches, $1,000,000.

Warehouse, Quebec City, Que., Canada Cement Co., Ltd., Montreal, $1,000,000.

Apartment, Brooklyn, N. Y., Garfield Park Corp., $1,000,000.

Administration, Baltimore, Md., Johns Hopkins University, sketches, $1,000,000.

Factory, Chicago, Ill., Pines Winterfront Co., $1,000,000.

Bids Asked

Y. M. C. A., New York, N. Y., bids about Dec. 14, $1,500,000.

Hospital, Belleville (br. Newark), N. J., Bd. Freeholders Essex Co., bids about Jan. 15, $1,000,000.

Bids Received

State office, Albany, N. Y., A. E. Smith, Governor and chn., State Building & Sites Comn., from Seglin-Harrison Constr. Co., Buffalo, and others, Proposal 1, $1,083,276, Proposal 2, $1,079,246.

Contracts Awarded

Studio, Westwood, Calif., W. Fox Film Corp., to G. Miller, Beverly Hills, $10,000,000.

Gas line, Tennessee and Louisiana, Memphis Natural Gas Co., subsidiary Union Utilities Inc., New York, separate contracts and day labor, est. $8,000,000.

Warehouse and freight terminal, Jersey City, N. J., Delaware, Lackawanna & Western R.R. Co., New York, general contract to Turner Constr. Co., New York, est. $4,500,000.

Club, store and office, Chicago, Ill., K. M. Vitzhum & Co., archts., general contract to McLennan Constr. Co., for La Salle Club, est. $3,000,000.

Church and apartment, New York, N. Y., Church Eng. Co. (archt. and lessee), for Calvary Baptist Church, separate contracts, $2,500,000.

Subway, Brooklyn, N. Y., Bd. Transportation, New York, Sect. 5a, Route 109, to C. Petrillo Co., New York, $2,019,977.

Roads, Edinburg, Tex., Hidalgo Co., to W. L. Pearson & Co., Corpus Christi, $1,827,448.

Apartment, Chicago, Ill., Leichenko & Esser, archts., general contract to C. B. Johnson & Son, for Sixteen Hundred Forty East Fifty-Sixth Street Building Corp., est. $1,500,000.

Exhibition hall, St. Louis, Mo., Forest Park Highlands Exhibition & Amusement Co., general contract to Boaz-Kiel Constr. Co., est. $1,500,000.

Hospital, Essondale, B. C., Deputy Minister, Provincial Govt., Victoria, and P. Philip, engr., Victoria, to Pacific Engrs. Ltd., Vancouver, $1,452,996.

Mill and power plant, Euclid (br. Cleveland), O., Chase Brass & Copper Co., to Austin Co., Cleveland, est. $1,250,000.

Carbonization plant, Coatesville, Pa., International Combustion Corp., New York, day labor, to exceed $1,000,000.

College, New York, N. Y., Columbia University, H. L. Norris, in charge, to T. O'Reilley, est. $1,000,000.

Hotel, Toledo, O., Stevens Hotel Co., c/o archt., to H. J. Spieker & Co., est. $1,000,000.

Public Bond Elections, coming and decided, are listed on Construction News page 303.

Construction News of the Week

Waterworks

Proposed Work

O., Euclid (br. Cleveland)—Upson Water Co., c/o A. Greene of Chase Brass & Copper Co., Waterbury, Conn., 1½ mi. 30 in. water line. F. A. Pease Eng. Co., Terminal Tower Bldg., Cleveland, engrs.

O., Toledo — Lucas Co. selling $26,770 bonds, Dec. 6, water supply line. C. L. Sawyer, Court House, co. engr.

Ind., Mishawaka—For 3 m.g. reservoir. Burns & McDonnell Eng. Co., 400 Interstate Bldg., Kansas City, Mo., engrs.

Ill., Bloomington—Bids in spring 5 m.g. water purifying and softening plant. Alvord, Burdick & Howson, 6 South Dearborn St., Chicago, engrs.

Ia., Cedar Rapids — Bids in February, new waterworks, 12 m.g. water softening plant. Alvord, Burdick & Howson, 6 South Dearborn St., Chicago, Ill., engrs. $500,000 Noted Sept. 20.

Minn., Montgomery—See "Unclassified."

S. D., Vermilion—Filtration plant. $16,000. C. I. Vaughn, city aud.

Mo., Billings — Preliminary plans purchasing supply from private owner, install booster pump, tank on tower, distribution system. $35,000. G. W. Fletcher, Union Natl. Bank Bldg., Springfield, engr.

Mo., Norborne—Preliminary plans waterworks, distribution system. $50,000. Rollins & Co., Ry. Exch. Bldg., Kansas City, engrs.

Mo., Wellsville — Preliminary plans waterworks, distribution system. Rollins & Co., Ry. Exch. Bldg., Kansas City, engrs.

Tex., Midland—Preliminary surveys and election soon $70,000 improving waterworks, incl. renewing distributing system, pumping equipment, etc. Address B. F. Haag, mayor.

Colo., Colorado Springs—For 4 mi. 20 in. steel pipe line from South Ruxton Reservoir to Ruxton Park hydro-electric plant near here. $40,000. F. O. Ray, city engr.

Wash., Bremerton — Surveys extending waterworks. J. O. Baar, Bremerton, consult. engr.

THESE reports are grouped under each class (water-works, sewers, etc.) and under each stage of the work (proposed, bids desired, etc.) according to the following geographic sections: New England, Middle Atlantic, South, Middle West, between Mississippi and Rocky Mountains, Far West, and Canada.

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk, or corresponding official.

Ont., Niagara Falls — Water Com., A. Collins, chn., 981 Jepson St., new waterworks system, incl. pump house and filtration plant. $450,000. F. A. Dallyn, 71 King St. W., Toronto, engr. Noted July 5.

Bids Asked

N. J., Newark—Dec. 20, by North Jersey Dist. Water Supply Comn., 24 Commerce St., portions Wanaque Aqueduct. Fuller & McClintock, engrs. M. R. Sherrerd, consult. engr.; adv. E. N.-R. Dec. 6.

O., Camp Perry (br. Port Clinton) — Dec. 10, by F. D. Henderson, adj. genl., pump and power unit for Water Works Dpt. $25,000. R. S. Beightler, State House, Columbus, engr.

Ill., Waterloo—Bids about Dec. 15, waterworks improvements, distribution system. $35,000 bonds voted. W. A. Fuller Co., 1912 Railway Exch. Bldg., St. Louis, Mo., engrs. Noted Oct. 25.

Kan., Randall—Dec. 10, by City Clerk, 11,975 ft. 2- to 8-in. c.i. pipe, 7,500 lb. specials, 18 valves and boxes, 18 hydrants, 30,000 gal. tank on tower, pump house. $21,000. Shockley Eng. Co., 800 Graphic Arts Bldg., Kansas City, Mo., engrs. Noted Nov. 22.

Tex., Amarillo—City, c/o J. D. Bartlett, mgr., bids about Dec. 10, improving waterworks, incl. 2 mi. 24 in. pipe to Wells 8, 9 and 10, each equipped with air lift pumps, installing compressor. $100,000. H. B. Jones, City Hall, city engr. Wynkoop Kiersted, 614 Interstate Bldg., Kansas City, Mo., consult. engrs.

Tex., Benjamin—Dec. 18, by City Council, c/o J. B. Jones, mayor, complete waterworks, incl. earth dam, 40,000 cu.yd. embankment, distribution system, incl. c.i. pipe, gate valves, hydrants, and fillings; one 200 g.p.m. centrifugal pump against 120 ft. head, belt driven by 25 hp. engine, and 50,000 gal. capacity steel tank on 100 ft. tower, and foundations for same. Noted Oct. 11.

Okla., Gould—Dec. 20, by A. R. Reeves, city clk., new waterworks, incl. 41,500 ft. 2- to 6-in. c.i. pipe, 2 triplex pumps, 50,000 gal. elevated and 40,000 gal. steel surface tanks. $59,000. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Apr. 12.

B. C., Vancouver — Dec. 11, by City Council, 25,000 ft. 6-in. c.i. pipe; one hundred 6-in. hub end gate valves; 500 imp. g.p.m. sewage pump, automatic control, etc. C. Brackenridge, City Hall, engr.

Bids Received

R. I., Warwick—Town Clerk, Town Hall, c.i. mains, appurtenances, incidental work for water supply, from H. W. Golden, &

See proposal advertising on page 151

Constr. News page 297

TRADE **"LEADITE"** MARK

Registered U. S. Pat. Office

A satisfied customer for more than 20 years

This one concern has laid more than 100 miles of c. i. bell and spigot water mains with Leadite joints. Working pressures exceeding 200 pounds.

The Pennsylvania Water Company, Wilkinsburg, Pennsylvania, has been a satisfied user of Leadite for over 20 years.

It has laid more than 100 miles of c. i. bell and spigot water mains with Leadite joints; sizes have varied from 4" to 42" in diameter.

It has working pressures up to and exceeding 200 pounds per square inch.

The Pennsylvania Water Company makes a systematic water waste survey of its system each year which shows the tightness of the mains laid underground.

The Pennsylvania Water Company usually lays its pipe with its own forces, but the 20" line, shown in the accompanying picture, was laid by a contractor and with most excellent results.

This line was tested and the leakage on this line ranged from 1/3 to 1/10 of the allowable leakage as ordinarily specified.

Mr. W. C. Hawley is Chief Engineer and General Superintendent of the Pennsylvania Water Company.

Section of 33,000 feet of 20 in. c. i. bell and spigot water main laid by contractor for the Pennsylvania Water Company. Pressures ranging from 70 pounds to 225 pounds per sq. in.

Specify and use LEADITE —it saves at least 75%

Be sure it is LEADITE and accept no imitations

The pioneer self-caulking material for c.i. pipe. Tested and used for over 30 years.

THE LEADITE COMPANY . . . Land Title Building . . . PHILADELPHIA, PA., U. S. A.

NO CAULKING

Waterworks (Continued)

Son, Inc., Burdett Ave., Troy, N. Y., $215,000. Noted Nov. 22.

N. Y., Brooklyn—J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, Nov. 27, mains in Avenue Q, Ditmas, Flatbush, Foster and Miller Aves., from Knight & DeMicco, Inc., 4197 Park Ave., New York, $8,411. Noted Nov. 22.

N. Y., Herkimer—Municipal Comn., C. L. Wood, supt., intake, distribution line and Herkimer Reservoir, from W. G. Fritz Co., Inc., 69 Main St., West Orange, N. J., $154,910, and from A. Phelps & Sons, Detroit, Mich., $98,809. Noted Oct. 18.

N. Y., New York—J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., Nov. 27, mains in Arlington, Benedick and Bronxwood Aves., from Knight & DeMicco, Inc., 4197 Park Ave., $10,325. Noted Nov. 22.

N. J., Jersey City and Newark—Joint Bridge Com., Hall of Records, Newark, new water line and tank on Jackson St. Bridge, and new water line on Bridge St. Bridge, from American Plumbing Co., Slp Ave., Jersey City, $41,899. Est. $50,000.

Contracts Awarded

N. Y., Long Island City — J. J. Dietz, comr., Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in 52nd, 63rd, 78th Aves., to B. Costanzo, 115 117th St., Brooklyn, $5,200. Noted Nov. 15.

N. Y., New York — J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., mains in Mosholu and Tibberts Aves., to Beaver Eng. & Constg. Co., 51 Chambers St., $41,414. Noted Nov. 15.

N. Y., St. George — J. J. Dietz, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Atlantic, Barlow, Bement and Decker Aves., to G. V. Cornell, 30 Egbert Pl., $36,100.

N. Y., Stamford—Bd. Village Trustees, at office Village Clerk, 2.5 mi. 10 in. supply main, filter building addition, improving storage dam, to Harp & Conway Constr. Co., 660 Bway., Kingston, $61,800. Noted Oct. 25.

Mich., Detroit—Bd. Water Comrs., rein.-con. substructure at Water Works Park, to Mark R. Hanna Co., Ryan and Nevada Aves., $147,000. Noted Nov. 22.

Tex., Waco — City Water Bd., c/o C. Shear, chn., steel and earth dam across Bosque River to city water supply, to W. E. Callahan Constr. Co., Kirby Bldg., Dallas, $770,072. Est. $1,500,000. Noted Nov. 1.

Wash., Seattle—Bd. P. Wks., 100,000 gal. steel tank at Lake Youngs, to Chicago Bridge & Iron Wks., L. C. Smith Bldg., $18,331. Noted Sept. 6.

Wash., Seattle — Bd. P. Wks., East Prospect Street Pipe Line, Proposal 1, to L. Coluccio, 1642 Lane St. $109,895; watermain in 51st Ave. N., to S. A. Moceri, Inc., 924 23rd St., $25,673.

Wash., Seattle — Bd. P. Wks., Cedar River Pipe Line 2, Beacon Hill, removing pipe line from Beacon Hill Reservoir to Kenyon St., reconstructing improvement with creosoted wood staves, to L. Coluccio, 1642 Lane St., $176,874. Noted Oct. 11.

Sewers

Proposed Work

N. Y., Buffalo — G. Fisk, Municipal Bldg., sewers in Kenmore, Kensington and East Delavan Aves. C. E. P. Babcock, Municipal Bldg., engr.

N. J., Elizabeth — Bd. Pub. Wks., City Hall, preliminary plans sewage disposal plant. $25,000. T. Collins, city engr.

N. J., Hawthorne (Ind. br. Passaic) — Bd. Boro Council, Boro Hall, sewers. $300,000. W. Ferguson, 152 Market St., Paterson, boro engr.

N. J., Plainfield—Common Council, City Hall, preliminary plans sewers in Geneva Pl., Elizabeth St., Geneva and Columbia Aves., Charlotte, Randolph and Terrill Rds. $25,000. A. Vars, city engr.

N. J., Plainfield—Common Council, City Hall, preliminary plans sanitary sewers in Park Pl., Hillcrest and Stilford Aves. $25,000. A. Vars, city engr.

W. Va., Huntington—City plans sewers in Walnut Hill. $35,000. A. B. Maupin, city engr.

O., Bedford—Sewage disposal plant. G. B. Gascoigne, Leader Bldg., Cleveland, engr.

O., Ravenna — Altering and extending sewage disposal plant. $25,000 or more. C. C. Homnon, 1403 Logan Ave. N. W., Canton, engr.

O., Toledo—Council, Sewer 1494, 9,290 ft. 36- to 114-in. circular in Sub-division A, 4,945 ft. 42- to 60-in. Sub-division B, 5,385 ft. 18- to 72-in. Sub-division C, and 2,753 ft. 42 and 48 in. Sub-division D; also bulkhead, storm water regulator chamber, 24 in. pipe connection to Ten Mile Creek Intercepting Sewers. $800,000. H. P. Jones & Co., 1601 2nd Natl. Bank Bldg., engrs.

Mich., Detroit—Dpt. P. Wks., 54,383 ft. 12- to 24-in. vitr. or concrete lateral sewers in alleys of City Blocks 5134, 5146, 5150, 5157, 5161, 5163, 5165, 5169, 5176, and 5181. P. A. Fellows, city engr.

Mich., Hastings—Sewage disposal plant, incl. brick pumping station, sedimentation tanks, sludge digestion department, $35,000. B. Sparks, city engr. Giffels, Hamilton & Webber, Grand Rapids Natl. Bank Bldg., Grand Rapids, consult. engrs. Noted Oct. 11.

Michigan — Oakland Co. (Pontiac) Macomb Co. (Mount Clemens), Lapeer Co. (Lapeer) and St. Clair Co. (Port Huron), 25-ft. oral arch section concrete covered drain in Red Run Creek from Twelve Mile Rd. to Bear Creek and Clinton River, also deepening Bear Creek and Clinton River for storm and sanitary drainage, near Pleasant Ridge. $9,000,000. Hoad, Decker, Shoecraft & Drury, Ann Arbor, engrs.

Tex., Corpus Christi—Preliminary plans 6 ft. concrete sewer in Del Mar Addition and section Bay Terrace. $38,000. H. L. Shaw, City Hall, engr.

Tex., Pampa—Concrete storm sewers in business district. $35,000. F. M. Gwin, Pampa, engr.

Tex., Port Neches—Bids after Dec. 1, sewerage system. $50,000. H. L. Thackwell, Jacksonville, engr. Noted Nov. 29.

Okla., Sulphur — Preliminary plans extending 21,000 ft. 8 and 10 in. vitr. clay sewers in Artesian Harland and Campbell Sts. $26,000 plus. B. Knox, city clk. Engineer not selected.

Calif., Redwood City—Sewers in Menalto Park in Ravenswood Dist. To exceed $25,000. G. A. Kneese, Redwood City, co. surv.

Calif., Santa Clara — For 18- to 30-in. diam outfall sewers from city to point of San Francisco Bay. $160,000. H. B. Fisher, Growers Bank Bldg., San Jose, engr.

Bids Asked

N. Y., Brooklyn—Dec. 12, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, sewers in Farragut Rd. and East 93rd St.

La., New Orleans—Jan. 30, by Sewerage & Water Bd., at office A. G. Moffat, secy., 526 Carondelet St., lined and covered drainage canals, pipe lines in North Rocheblave St. and Mirabeau Ave. G. G. Earl, genl. supt.; adv. E. N.-R. Dec. 6. Noted Nov. 22.

O., Akron—Dec. 10, by F. E. Swineford, dir. Pub. Serv., 7,650 ft. 18- to 20-in. vitr. clay sewers in Hawkins Ave. and Right-of-Way; Little Cuyahoga River Intercepter between Ravine and East North Sts., 6,295 ft. 39 to 87-in. rectangular rein.-con. and vitr. clay pipe. A. B. Backherms, Municipal Bldg., engr.

O., Canton—Dec. 14, by Bd. Control, 1.25 mi. sanitary sewers in 25th St. N. W. and Monument Rd. N. W. $27,000. W. E. Sarver, City Hall, engr.

O., Canton—Dec. 12, by Comrs. Stark Co., 18,654 ft. 6 and 8 in. c.i. mains in Edgefield Sewer Dist. 3, Prospects 14 and 16. $50,000. G. Davison, Court House, engr.

Mich., Halfway—Dec. 11, by E. D. Millar, drain comr. Macomb Co., Mount Clemens, 4,057 ft. 8- to 72-in. monolithic concrete, concrete and vitr. sewer in Lorraine Arm—Nine Mile—Halfway Drain.

Tex., Port Neches—Taking bids improving waterworks, incl. c.i. pipe, tank and tower, filtration plant, pumping unit, etc. $70,000. H. J. Thackwell, Jacksonville, engr. Noted Nov. 29.

Tex., Stinnett—Dec. 11, by Bd. Comrs., L. Walters, mayor, well, booster pump, pump house, 50,000 gal. concrete reservoir, 50,000 gal. elevated tank on 100 ft. tower, distribution system. H. N. Roberts, Stinnett, engr. Noted Oct. 18.

Okla., Gage—Dec. 10, by City, 8- to 12-in. clay pipe sewers. $27,000. Devlin Eng. Co., 713 Fisk Medical & Professional Bldg., Amarillo, Tex., engr.

Okla., Gage—Dec. 17 (extended date), by O. Massey, mayor, 25,285 ft. 8- to 12-in. clay and tile sewers. $26,000. Devlin Eng. Co., 713 Fisk Medical & Professional Bldg., Amarillo, Tex., engrs. Noted Nov. 29.

Bids Received

N. Y., Long Island City—B. M. Patten, pres. Queens Boro, Queens Subway Bldg., Nov. 26, from J. W. Szpantowicz, 490 Boulevard, sewers in Laurel Hill Ave., $6,656; from Lione Constr. Co., LaForge St., 44th Ave. $3,381, 61st St. $2,446, 99th St. $1,521, 170th St. $7,248, 125th St. $1,375; from Peace Bros., Inc., 57 North Lawrence St., Flushing, Forest Ave., $6,931; from D. A. Gross, 8515 Fulton St., Woodhaven, 91st St. $2,489, 132nd St. $470, 205th St. $1,859; from A. W. Matarazzo, 1163 61st St., 104th Ave. $4,365, 109th Ave. $1,752, 203rd St. $1,688. Noted Nov. 22.

N. J., Union—Twp. Com., Town Hall, Nov. 19, sanitary sewers in Morrison Ave., from Cestone Bros., Inc., 5 Clover Hill Pl., Montclair, $22,788. Est. $35,000. Noted Nov. 15.

O., Akron—See "Airports."

O., Cleveland—Comrs., Cuyahoga Co., Nov. 21, 27,000 ft. 8- to 42-in. sewers in Briar Cliff Subdivision 6 (Impvt. 800), from Pfaff Constr. Co., 1418 Lincoln Ave., concrete $103,674, brick $111,753, segment $107,675.

Contracts Awarded

Miss., Hazelhurst — Sanitary sewers in Georgetown St., to F. D. Harvey, 688 South Bellevue St., Memphis, Tenn., $49,046.

O., Akron — For 6,900 ft. 24- to 66-in. segmental block sewers, drains in airport in connection with agreement with Goodyear-Zeppelin Corp., to McAlonan Bros., 506 Woodland Ave., $71,022. Est. $108,000. Noted Apr. 19 under Unclassified.

O., Massillon—Sanitary sewer in Lincoln Way N. W., to Shullo & DeLuci Co., Akron, $28,923.

Wis., Greenwood—City Council, sanitary sewerage system, to P. Lametti, Globe Bldg., St. Paul, Minn., $34,800; two disposal plants, to J. E. Hammett, 5 12th Ave. N. E., North St. Paul, Minn., $15,000.

Wis., Milwaukee—Dpt. P. Wks., to Zimmermann & Zimmermann, 2826 State St., sewer in Locust St. $1,345, 61st St., $12,677; to Wenzel & Henoch, 498 27th St., Clement Ave., $3,107, East Wisconsin Ave. $2,336, Main St. $3,785; to General Contractors, 4728 Lisbon Ave., Sherman Blvd. $7,356. Grand total $30,606.

Wis., Milwaukee—Dpt. P. Wks., house connections in Adams and 10th Aves., to Klump & Johnston, St. Francis, $5,436 and $5,543 respectively; California St., to Wisconsin Sewer Constr. Co., 146 30th Ave., $4,934; 11th Ave., to T. G. Holton, 345 27th Ave., $9,074; Taylor Ave., to F. A. Goll, 223 18th St., $3,948; 9th Ave., to Kehrein Bros., Inc., 1096 23rd St. $6,156. Grand total $35,091.

Tex., Houston—Extending sewerage system in North Main St. and Houston Ave., to C. K. Horton, 2200 Clay St., $50,213. Noted Nov. 22.

Okla., Enid—Sewage disposal plant, to E. W. Baker & Co., Perrine Bldg., Oklahoma City, $43,930. Est. $50,000. Noted Aug. 9.

Okla., Garber—City, 3,500 ft. 15 in. vitr. clay, outfall sewers, sewage disposal plant, to C. Robeck Co., 408 Securities Bldg., Omaha, Neb., $24,854. Est. $90,000. Noted Nov. 8.

Wash., Seattle—Bd. P. Wks., trunk sewer in Madison St., to McEachern Constr. Co., Colman Bldg., $24,198.

Calif., Compton—Sewers in Pearl Ave. and Willow St., to S. C. Kruly, 326 North Hill St., Los Angeles, $43,573. Noted Nov. 1.

Calif., Los Angeles — Los Angeles Co., portion Crochett Blvd.-Glen Ave., trunk sewer from Oaks Ave. to Santa Ana Blvd., to Bebek & Brkich, 5011 East Slausson St., $36,979.

Waste Disposal

Proposed Work

N. Y., New York—Bd. Estimate & Apportionment, City Hall, 2 garbage incinerators in Bronx Boro and 2 in Manhattan Boro. $5,000,000 voted. A. Taylor, comr. Dpt. Street Cleaning, Municipal Bldg.

N. J., Clifton—Bd. City Council, City Hall, incinerator. $350,000. J. L. Fitzgerald, city engr

Bids Asked

N. Y., Brooklyn — Dec. 24, by Brooklyn Ash Removal Co., Inc., at Dpt. Street Cleaning, Municipal Bldg., New York, excavating, concrete foundations, buildings, superstructure, for complete incinerator plant, north of Avenue J, between East 57th and 58th Sts. E. L. Collins, engr. Noted Nov. 15.

Tex., San Angelo — Dec. 18, by City Comrs., incinerator. $25,000. City Eng. Dpt., c/o E. V. Spence, city mgr., engr. Noted Nov. 15.

Constr. News page 298

If *Results* Count, Here They Are!

One More Reason for Using *High-Early-Strength* Universal Concrete

Commercial Testing Laboratory Report

Note the *uniformly* high strengths obtained from test cylinders each of which was made from a different batch.

TELEPHONES ATLANTIC 0011 0012

WALTER H. FLOOD & CO.
CHEMICAL ENGINEERS
ROADS AND PAVEMENTS
933 EAST 44TH STREET
CHICAGO

October 6, 1928.

J. A. Ross Construction Co.
228 N. LaSalle Street
Chicago, Illinois.

Gentlemen:

No doubt you will be pleased to see the cylinder compression tests from the bridge-approach pavement you constructed at Bryn Mawr Avenue and the Sanitary Canal, Chicago. The results follow:

Date Placed: October 1
Date Broken: October 5

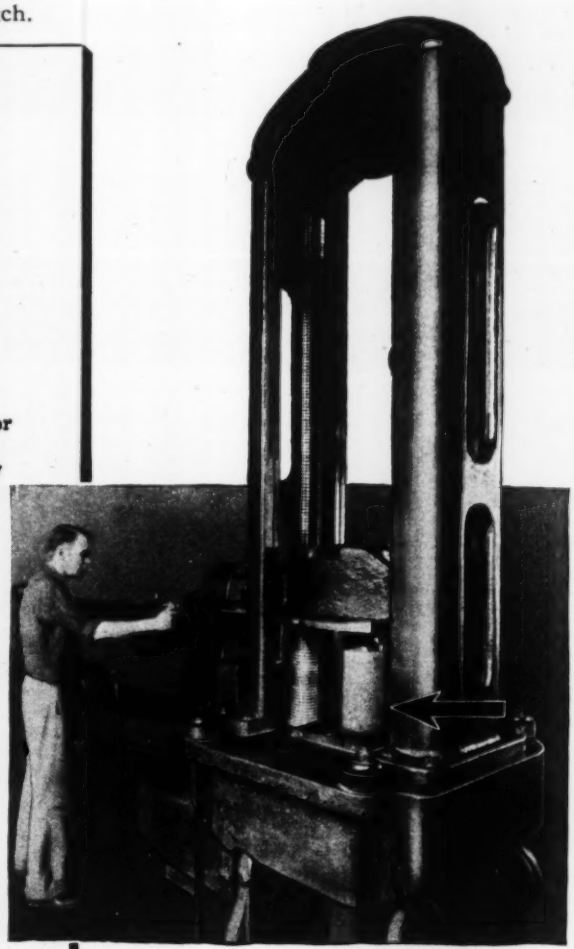
COMPRESSIVE STRENGTH. (Pounds per square inch)
Each cylinder made from a different batch.

Cylinder #1 - 2493
" #2 - 2581
" #3 - 2405
" #4 - 2390
" #5 - 2350
" #6 - 2390
" #7 - 2425
" #8 - 2440

These specimens show a well graded mixture and good compressive strength.

Respectfully submitted,

Walter H. Flood & Co.



Compressive Strength Testing Machine

Concrete as ordinarily mixed and placed reaches a compressive strength of about 2000 pounds per square inch in 28 days.

Tests on the above bridge approach show the *uniformly* high strengths that, with approved methods, can be obtained with the usual Universal cement in $^1/_7$ the time ordinarily required.

These *high-early-strength* methods will be sent on request. Send the coupon.

---Please send me *new booklet*---

Name _____

Address _____

Universal Portland Cement Co.
208 So. La Salle Street, Chicago

Without obligation, please send me new booklet giving full details for securing strong concrete in 3 days with the usual materials and labor.

F.N.R. 12-6-28

Universal Portland Cement Co.

SUBSIDIARY U. S. STEEL CORPORATION

Chicago Pittsburgh Minneapolis Duluth Cleveland Columbus New York

One Standard Cement for All Concretes and Mortars

Bridges

Proposed Work

Md., **Baltimore**—Steel bridge over Pennsylvania R.R., on Wilkins Ave. $165,000. N. L. Smith, City Hall, hys. engr.

Virginia—Richmond-Hopewell Bridge Co., 57 William St., New York, P. K. Schuyler, secy. and treas., steel vertical lift span highway toll bridge over James River between Richmond and Hopewell. $450,000.

O., **Cleveland**—W. R. Hopkins, city mgr., steel or rein.-con. bridge across Brookside Park. $500,000. J. M. Heffelfinger, City Hall, engr.

O., **Lisbon**—Columbia Co., 500 ft. concrete bridge in Fredericktown, $25,000; concrete bridge on East Palestine-East Liverpool Rd., south of Negley, $25,000 or more. L. C. Kirk, Lisbon, engr.

O., **Toledo** — City Council preliminary survey, plans high level bridge over Maumee River. Total $3,000,000. L. T. Owen, City Hall, engr. Noted Nov. 22.

Wisconsin and Minnesota — St. Croix Bridge Co., Grantsburg, bridge over St. Croix River connected Wisconsin Hy. 70 and Minnesota Trunk Hy. 9. To exceed $25,000. C. A. P. Turner, 300 Builders Exch., Minneapolis, Minn., engr.

Minnesota—State Hy. Comn., St. Paul, returned bids unopened which were to have been opened Nov. 20, Bridge 4800 over Minnesota River, State Project 70-21, south of Fairfax. Project postponed because of insufficient funds. Noted Nov. 8.

Tex., Galveston—Galveston, Houston & Henderson Ry. Co., S. J. Maas, Galveston, resident engr., steel bridge across Buffalo Bayou. $75,000.

Tex., Plainview—City and Santa Fe Ry., constructing 600 ft. long, rein.-con. and steel overpass over R.R. tracks, on Lee Hy. $150,000. L. O. Cox, Plainview, resident engr.

Okla., Bixby—Tulsa Co. (Tulsa) preliminary plans 8 span 130 ft. concrete bridge over Hilltop Creek, near here. $40,000. H. A. Parker, Court House, Tulsa, co. engr.

Calif., Salinas—Monterey Co., Gardnerville Bridge, $95,000; Elkhorn Bridge, $36,000. H. F. Cozzens, Salinas, co. engr.

Bids Asked

New Hampshire — See "Streets and Roads."

Virginia—Dec. 18, by State Hy. Comn., Richmond, bridge over West Branch Elizabeth River, Project S473; adv. E. N.-R. Dec. 6.

North Carolina—Dec. 18, by State Hy. Comn., Raleigh, rein.-con. bridges on Project 7302, Davie Co. $55,000—Project 663, Richmond Co., $37,000, and Project 326 Brunswicks Co. $56,200. L. R. Ames, Raleigh, engr.

South Carolina — See "Streets and Roads."

Tennessee—See "Streets and Roads."

Iowa — Dec. 11, by State Hy. Comn., Ames, 60 x 20 ft. pony truss bridge, U. S. Rd. 32, B-571 Cass Co.—6 bridges, 38 culverts, Primary Road 141, B-507 Crawford Co.—90 x 20 ft. pony truss bridge, concrete floor and abutments, Primary Road 59, B-155 Poweshiek Co.—40 ft. arch bridge, Primary Road 11, B-177, Winneshiek Co.—9 culverts U. S. Road 218, B-604 O'Brien Co. R. D. White, hy. engr.

Iowa—See "Excavation, Drainage, Irrigation, Levees, River and Harbor."

Mo., Independence—See "Streets and Roads."

Texas—Dec. 17, by G. Gilchrist, state hy. engr., Austin, rein.-con. bridges on Hy. 23, Shackelford Co., $63,000, J. E. Pirle, Albany, resident engr.—bridges on Hy. 5, Wilbarger Co. $27,000, J. B. Nabors, Vernon, co. engr.—steel and rein.-con. bridges on Hy. 32, Freestone Co., $72,000, M. B. Hodges, Teague, resident engr. R. S. Sterling, Austin, chn. hy. com.

Tex., Corsicana — Dec. 15, by Comrs. Court Navarro Co., c/o J. W. Hick, judge, Corsicana, rein.-con. bridges, culverts on 12.39 mi. Cardinal Rd. 1, Unit 1, Sect. B. McClendon & Purnell, Corsicana, co. engrs.

Wash., Tacoma—Dec. 18, by State Hy. Com., Olympia, 137 ft. concrete cantilever beam span bridge carrying Tacoma Ave. over State Rd. 1, Pierce Co., incl. 56,000 cu.yd. excav. and backfill. S. J. Humes, state hy. engr.

Contracts Awarded

N. Y., New York — A. Goldman, comr. Plant & Structures, Municipal Bldg., reinforcing, reconstructing Kisco River Bridge over Kisco River to J. J. Farley Corp., Riverside Ave., Croton, $24,500. Noted Nov. 15.

New Jersey—State Hy. Comn., Trenton, substructure for bridge across Hackensack River from Jersey City to Newark, to Foundation Co., 120 Liberty St., New York, $920,000.

N. J., Marion (mail Jersey City)—Pennsylvania R.R. Co., T. J. Skillman, ch. engr. Broad Street Station, Phila., Pa. constructing masonry for pier New Hackensack River Bridge, to Arthur McMullin Co., 50 Church St., New York. Est. $1,000,000.

Ohio—See "Streets and Roads."

O., Youngstown—At office F. A. LaBelle, secy. Bd. Directors Mahoning Valley Sanitary Dist., 901 City Bank Bldg., Ohltown Viaduct, to Pitt Constr. Co., Empire Bldg., Pittsburgh, Pa., $280,604. Est. $300,000. Noted Sept. 13.

Wis., Milwaukee—Armour & Co., 2nd and Clybourn Sts., 250 ft. steel inclosed bridge, 12 ft., on Muskego Ave., to Theo. Stork & Co., 1816 Wisconsin Ave.

Iowa—State Hy. Comn., Ames, bridges in Cass Co., to Wickham Bridge & Pipe Co., Council Bluffs, $54,900—Warren Co., to B. Cole & Sons, Ames, $22,441—Winneshiek Co., to A. Olson Constr. Co., Waterloo, $10,495—culverts in Allamakee Co., to J. J. Grose, Des Moines, $13,746—Clayton Co., to T. Fisko, Garber, $21,000 — Fremont Co., to G. W. Condon Co., 415 Farnum St., Omaha, Neb., $5,290—Jackson Co., to S. J. Groves & Sons Co., 306 Globe Bldg., Minneapolis, Minn., $4,193 — Van Buren Co., to Jameson & Price, Keosauqua, $1,316 ——Winneshiek Co., to Christensen Bros., Tyler, Minn., $26,700. Grand total $160,081. Noted Nov. 22.

Minnesota—State Hy. Comn., St. Paul, Bridge 4573, over Shell Rock River, Albert Lea, to Minnesota General Contractors, 831 2nd Ave. S., Minneapolis, $24,461; Bridge 4390, over Mississippi River, Monticello, to Widell Co., Mankato, $151,939. Noted Nov. 8.

Neb., Plattsmouth — Plattsmouth Bridge Co., H. Schneider, pres., foundation for toll bridge over Missouri River, 250 ft. south of present Burlington R.R. Bridge, to Union Bridge & Constr. Co., 1205 Midland Bldg., Kansas City, Mo.; remainder of work, to Omaha Steel Wks., 4802 Leavenworth St., Omaha. Est. $700,000.

Mo., Independence — See "Streets and Roads."

Mo., Kansas City—Jackson Co., 4 rein.-con. bridges, to G. W. Condon Constr. Co., 223 Grain Exch., Omaha, Neb., $64,256.

Texas—G. Gilchrist, state hy. engr., Austin, rein.-con., steel bridges in Dallas Co., to Austin Bridge Co., P. O. Box 1094, Dallas, $134,146—Hardin Co., to Brown-Abbott Co., Inc., 842 Wilson Bldg., Dallas, $72,777 —Goliad Co., to Word & Worrell, Itasca, $38,820—Leon Co., to H. R. Persifal & Co., Nacogdoches, $39,068. Grand total $284,811. Noted Nov. 15.

Washington—State Hy. Comn., Olympia, 180 ft. steel deck truss bridge with three 18 ft. steel I-beam approach spans over Morse Creek, Yakima Co., to C. G. Huber, 1001 Porter Bldg., Portland, Ore., $19,030. Noted Nov. 1.

Washington—State Hy. Comn., Olympia, redecking timber trestle approaches to Castle Rock Bridge, State Rd. 1, Cowlitz Co., to C. Bjork, 2437 West 63rd St., Seattle, $9,900—110 ft. concrete T-beam bridge over Curley Creek, Kitsap Co., to P. Manson & Son, 202 Grand Trunk Dock, Seattle, $25,682—grading, 6,000 cu.yd. State Rd. 2, King Co., to J. Paduano, 7301 Dibble Ave., Seattle, $2,705. Grand total $38,287. Noted Nov. 8.

Ont., Ottawa—Secretary Bd. Control, concrete, steel bridge, on Somerset St., to Farley & Grant, Bank Natl. Bldg., Rideau St., $119,025. Est. $150,000. Noted Nov. 1.

Railways

Proposed Work

West Virginia—Chesapeake & Ohio Ry. Co., C. W. Johns, ch. engr., Richmond, Va., third tracking in Huntington Division, $4,200,000; new locomotive repair and machine shops in Huntington, $3,500,000; new car repair shops at Russell, Ky., $3,100,000.

Louisiana — New Orleans, Texas & Mexico R.R. Co., subsidiary Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., St. Louis, Mo., constructing 82 mi. railroad from Baton Rouge to New Orleans.

Contracts Awarded

Missouri—Missouri Pacific R.R. Co., E. A. Hadley, ch. engr., St. Louis, grading, bridges, culverts on 5.8 mi. new railroad from Filmo, Scott Co., to connect with old Cape Girardeau & Northern R.R. to south of Cape Girardeau, rehabilitation of latter road into and through Cape Girardeau, incl. yard, freight facilities, to W. P. McGeorge & Co., Pine Bluff, Ark., and Cape Girardeau; laying rails on new line, rehabilitation old line, by company's forces; 1 story, 38 x 40 ft., brick, corrugated asbestos, steel power house, Wichita, Kan., to Blaser-Bollmer Constr. Co., Wichita, Kan.; 1 story, 16 x 48 ft., concrete, brick, steel hostlers, engine supplies, etc., East Bottoms, Kansas City, to E. L. Winn, 228 Ry. Exch. Bldg., Kansas City. Noted Nov. 15.

Texas — Houston Navigation Dist., 4.3 mi. railroad extension to new Roxana refinery, to C. K. Horton, 2200 Clay St., $90,291. Est. $140,000. Noted Nov. 22.

Airports

Proposed Work

ADMINISTRATION—**Cleveland, O.**—See "Buildings—Commercial."

AIRPORT—**Elyria, O.**—Cities of Elyria and Lorain surveys airport. Austin Co. 16112 Euclid Ave., Cleveland, engrs.

AIRPORT IMPROVEMENTS—**Colorado Springs, Colo.** — City Council, S. E. Nicholas, clk., expending $25,000 during 1929, airport improvements. F. O. Ray, engr.

HANGARS, etc. — **Seattle, Wash.** — Comrs. King Co., steel, semi-fireproof hangar $50,000, administration building $100,000, dumping 800,000 cu.yd. dirt from Dwamish Waterway $50,000. Noted Nov. 22.

Bids Asked

HANGAR—**Colonie** (sta. West Albany), **N. Y.**—Colonial Airways, lessee, 270 Madison Ave., New York, taking bids steel and mechanical equipment for hangar. $75,000. American Airports Corp., 527,5th Ave., New York, archt.

Bids Received

HANGAR—**Miami, Fla.**—City, c/o Aviation Dpt., hangar at municipal air field, from M. F. Comer Foundation Co., 1610 Northwest 8th Terrace, $16,756. Noted Nov. 15 under "Unclassified."

AIRPORTS—**Akron, O.**—F. E. Swineford, dir. P. Serv., Nov. 19, 6,900 ft. 24- to 66-in. vitr. clay sewers, drains in airport in connection with agreement with Goodyear-Zeppelin Corp., from McAlonan Bros., 506 Woodland Ave., segment $71,022, brick $76,749. Noted Nov. 8 under "Sewers."

Excavation, Drainage, Irrigation, Levees, River and Harbor

Proposed Work

N. J., Long Branch — Bd. City Comrs., City Hall, rein.-con. bulkhead and jetty. $50,000.

Ia., Red Oak—Nishna Botna D. D. 11, Montgomery Co., bids early in 1929, 5,800 ft. open ditch work, incl. 85,000 cu.yd. excav.

Neb., Lincoln—Flood relief, incl. 10,000,000 cu.yd. excav. Alvord, Burdick & Howson, 6 South Dearborn St., Chicago, Ill., engrs.

Ont., Hamilton—Steel Co. of Canada, R. H. McMaster, pres., new docks. $1,500,000. Private plans.

Bids Asked

N. Y., Brooklyn — Dec. 10, by M. Cosgrove, comr. Docks, Pier "A," foot Battery Pl., North River, New York, dredging channel from Paerdegat Basin to line 550 ft. from Canarsie Pier; at foot Rockaway Parkway; bulkheads to retain spoil and dredging connecting channel east of Fresh Creek Basin, Jamaica Bay.

N. J., Monmouth Beach—Dec. 19, by Bd. Freeholders Monmouth Co., Court House, Freehold, extending stone jetty. G. K. Allen, Jr., 60 Broad St., Red Bank, co. engr.; adv. E. N.-R. Dec. 6.

Fla., Jacksonville — Dec. 17, by City Comn., improving McCoys Creek, incl. bulkheading, drainage and excavation, bridges, underpasses. $350,000.

Iowa — Dec. 20, by C. Pitchforth, aud. Muscatine Co. (Muscatine), and C. L. McClurkin, aud. Carroll Co. (Carroll), 3,600 ft.

Constr. News page 299

INDEPENDENT

Concrete Sewer Pipe

Why Engineers and Contractors Prefer It

EACH year finds a greater number of American cities solving their sewer construction problems, *permanently* and at *low cost*, by laying INDEPENDENT Reinforced Concrete Pipe Sewers. There are two reasons why:

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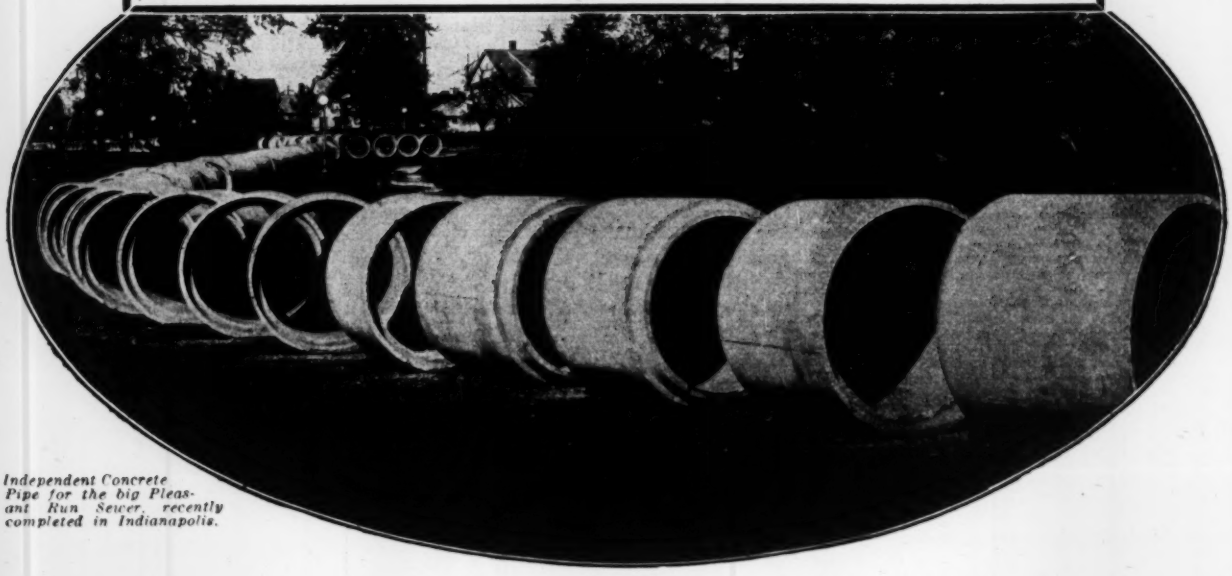

Independent Concrete Pipe for the big Pleasant Run Sewer, recently completed in Indianapolis.

Excavation, Drainage, Irrigation, Levees, River and Harbor (Continued)

diversion Michael Creek into Mississippi River, incl. 117,000 cu.yd. excav., 40,000 cu. yd. excav. in silt basin, 50 cu.yd. rein.-con. in Spillway, also bridge over channel. C. H. Young, ch. engr. Central States Eng. Co., Muscatine, engr.

Streets and Roads

Proposed Work

Massachusetts — Dpt. P. Wks., State House, Boston, rejected bids bituminous concrete paving 9,253 ft. hy. in Falmouth. Former contract rescinded. Will probably readvertise. Noted Nov. 29.

Mass., Dorchester (sta. Boston)—Dpt. P. Wks., Boston, improving Codman Hill Ave. as hy. $25,000 or more. J. H. Sullivan, comr.

Mass., West Roxbury (sta. Boston) — Dpt. P. Wks., Boston, Constructing Lotus Pl., Brook Rd. and Park Terrace as hy. $25,000 or more. J. H. Sullivan, comr.

Conn., Middletown—Wesleyan University extending Church St., and Wesleyan Pl., incl. sidewalks, curbing, guttering, sewers. $100,000. McKim, Meade & White, 101 Park Ave., New York, engrs.

New Jersey—State Hy. Comn., Trenton, repaving Union Valley Rd., West Milford, Passaic Co. $30,000. W. G. Sloan, State House, Trenton, engr.

N. J., Bordentown—City Comn., and Bd. Freeholders Middlesex Co., New Brunswick, paving 0.5 mi. Farnsworth Ave.

N. J., Clifton — Bd. City Council, City Hall, preliminary plans grading, curbing, guttering, sidewalks, bituminous macadam paving 3rd St. between Main St. and 6th Ave. $70,000. J. L. Fitzgerald, city engr.

N. J., Elizabeth—Bd. Pub. Wks., City Hall, preliminary plans curbing, sheet asphalt on concrete paving Westfield Ave. from North Broad St. to Magie Ave. $25,000. T. Collins, city engr.

N. J., Fort Lee—Bd. Boro Council, Boro Hall, preliminary plans grading, rein.-con. paving Brinkerhoff Ave. $25,000. McClave & McClave, 600 Gorge Rd., Cliffside, boro engrs.

N. J., Hillside (sta. Elizabeth) — Twp. Comn., Town Hall, preliminary plans grading, curbing, sidewalks on Brookside Ave. $25,000. C. Luster, 286 North Broad St., Elizabeth, twp. engr.

N. J., Montclair—Bd. Town Comrs., Administration Bldg., preliminary plans widening, sheet asphalt on concrete paving Church St. $25,000.

N. J., Morristown—Bd. Freeholders Morris Co., Court House, paving 2.5 mi. Columbia Turnpike. $150,000. State appropriates toward cost.

N. J., New Brunswick—Bd. Freeholders Middlesex Co., County Record Bldg., preliminary plans curbing, 7 in. single line rein.-con. paving Amboy Ave. from Metuchen to Fords. $25,000. F. Buchanan, 175 Smith St., Perth Amboy, co. engr.

N. J., North Bergen (Ind. br. West New York)—Twp. Comn., Town Hall, preliminary plans grading, concrete paving River Rd. $50,000. R. Glenn, twp. engr.

N. J., North Bergen (Ind. br. West New York)—Twp. Com., Town Hall, preliminary plans grading, sheet asphalt on concrete paving Kansas Ave. $25,000. R. Glenn, twp. engr.

N. J., Paterson—Bd. Freeholders Passaic Co., Court House, grading, rein.-con. or bituminous macadam paving Paterson-Hamburg Turnpike. $50,000. G. Ferguson, Court House, co. engr.

N. J., Paterson — Bd. Park Comrs., City Hall, tarviating roads, retaining walls, in Westside Park. $25,000. F. W. Loede, park engr.

N. J., Plainfield—Common Council, City Hall, preliminary grading, curbing, guttering, sheet asphalt on 6 in. concrete paving Melrose Pl., Murray and Melrose Aves. $25,000. A. Vars, city engr.

N. J., Pompton Lakes — Boro Council, Boro Hall, preliminary plans widening, bituminous macadam paving Ringwood Ave. $25,000. E. N. Millen & Son, 419 Ramapo Ave., engr.

N. J., Roselle Park (br. Elizabeth) — Boro Council, Boro Hall, preliminary plans grading, curbing, sheet asphalt on 6 in. concrete paving Clay and Grant Aves. W. $25,000. J. W. Higgins, boro engr.

N. J., Spring Lake (P. O. Spring Lake Beach)—Mayor and Council, paving Mercer, Sussex, Essex, Monmouth, Atlantic, 6th, 7th and Lake Aves. $30,000. C. W. Birdsall, Spring Lake, engr.

N. J., Teaneck (br. Hackensack) — Twp. Comn., Municipal Bldg., widening, rein.-con. paving Teaneck Rd. $30,000. P. Fraleigh, Teaneck Rd., Cedar Lane, twp. engr.

N. J., Union—Twp. Com., Twp. Hall, preliminary plans grading, sheet asphalt on 6 in. concrete paving Morris Ave. from Springfield Ave. to Potters Lane. $25,000. H. Kreh, Jr., Falls Bldg., twp. engr.

N. J., Union City — Bd. City Council, City Hall, will not pave 30th, 31st and Sip Sts. $105,000. Project abandoned. J. Maulbeck, City Hall, engr. Noted Oct. 25.

Pa., Pittsburgh—Soon takes bids grading, paving Pike St. between 11th and 21st Sts. $175,500 — River Ave. $39,800 — paving, curbing Bigelow St. $166,000. Dpt. P. Wks., City County Bldg., engrs.

Md., Baltimore—Asphalt paving. $80,200. N. L. Smith, City Hall, hy. engr.

Miss., Corinth—Preliminary plans concrete or asphalt resurfacing 17 blocks.

Louisiana — State Hy. Comn., Baton Rouge, graveling 4.2 mi. Bernice Homer Hy., Union Parish, $25,000 — 11.5 mi. Coushatta-Ashland Hy., Red River Parish —5.1 mi. Leesville-Texas Hy., Vernon Parish, $30,000. J. M. Fourmy, Reymond Bldg., Baton Rouge, ch. engr.

Louisiana — State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 11 mi. Arcadia-Hodge Hy., 30 ft., Bienville Parish; 7.4 mi. Compti-Goldonna Hy., Natchitoches Parish; 4 mi. Sodus-Ajax Hy. and 7.4 mi. Hill-Converse Hy., Sabine Parish. Noted Nov. 22.

Louisiana — State Hy. Comn., Baton Rouge, graveling 12 mi. Albany-Montpelier Hy. and 6.5 mi. Acy-Head of Island Hy., Livingston Co.; 5.2 mi. Port Hudson-Thompson Creek Hy., East Feliciana Parish. J. M. Fourmy, Reymond Bldg., Baton Rouge, hy. engr.

Louisiana—State Hy. Comn., Reymond Bldg., Baton Rouge, grading, graveling, paving 250-300 mi. roads during 1929, incl. Spanish Trail, Hammond Rd., Jefferson Hy. from New Orleans to Shreveport through Baton Rouge. Est. $20,000 per mi. J. M. Fourmy, Baton Rouge, hy. engr.

Louisiana — State Hy. Comn., Baton Rouge, postponed bids to have been opened Nov. 23, graveling Bossier City-Minden Hy., Bossier and Webster Parishes. J. M. Fourmy, Baton Rouge, hy. engr. Noted Nov. 8.

La., Baton Rouge — State Hy. Comn., Reymond Bldg., Baton Rouge, graveling 7 mi. Livonia-Opelousas Hy., St. Landry Parish. $40,000. J. M. Fourmy, Baton Rouge, state engr.

La., Monroe—Preliminary plans grading, curbing, guttering, concrete paving Grayling Lane, Ouachita Auburn and Forsythe Aves., South 3rd, Alexander, 4th, 5th, 6th, M and Rochelle Sts. I. W. Neel, city engr.

O., Canton—Stark Co., widening, brick on concrete paving 5.6 mi. Canton-Akron Rd. $800,000. A. M. Wise, Canton, engr.

O., Cincinnati—Concrete curbing, sheet asphalt repaving 4,000 sq.yd. and concrete paving 22,000 sq.yd. Delta Ave. $107,580. C. O. Sherrill, city mgr.

O., Elyria — Lorain Co. bids in spring widening, resurfacing 10 mi. Lake Rd. from city limits to Cuyahoga Co. line, 20 ft. $800,000.

O., Lisbon—City Council, bids in spring, concrete paving Beaver, Jefferson, Spruce and High Sts. $40,000.

O., Toledo—Comrs. Lucas Co. soon takes new bids macadam paving 6 mi. each Swanton-Maumee and Angola Rds. Former contract rescinded. Noted Nov. 29.

O., Youngstown — Comrs. Mahoning Co., bids in spring straightening, widening 2.5 mi. Girard-Youngstown Rd., 20 ft. $100,000.

Wisconsin—Oconto Co., H. Bartz, comr., voted $112,000, concrete paving; Jackson Co., O. H. Overlein, comr., Black River Falls, $250,000; Barron Co., E. Gleason, comr., Barron, $165,000; Juneau Co., H. Christenson, comr., Mauston, $85,000; Wausau Co., J. A. Clark, comr., Wausau, $884,000; Rock Co., C. E. Moore, Janesville, $70,000, graveling; Walworth Co., H. J. Peters, comr., Elkhorn, $82,000; Fond du Lac Co., Fond du Lac, $47,672.

Wis., Madison—Dane Co., J. R. Caldwell, comr., appropriated $1,417,141, improving highways during 1929.

Wis., Neillsville—Clark Co., O. J. Weyhmiller, comr., 20 ft. concrete paving 19.65 mi. State Trunk Hy. 29. $650,000.

Ia., Charter Oak — Preliminary plans grading, curbing, hard-surfacing 40,000 sq.yd. $90,000. W. E. Buell & Co., 337 Insurance Exch. Bldg., Sioux City, engrs.

Ia., Milford—Grading, concrete paving. W. E. Buell & Co., 337 Insurance Exch. Bldg., Sioux City, engrs.

Minn., LeSueur—Paving 6 blocks. $25,000. J. A. Morgan, city clk.

Minn., St. Paul—Grading, paving Hillcrest, Pinehurst, Howell Aves. $129,000—paving Otto Ave. between Snelling and Hamline Aves. $58,000 — Lombard Ave. between Lexington Ave. and Milton St., $26,000. J. W. Kelsey, city engr.

Kan., Leavenworth — Leavenworth Co. preliminary plans grading 1,983 mi. Sect. C, and 7.723 mi. Sect. D, Federal Aid Project 307, 30 ft. J. E. McCorkle, Court House, engr.

Kan., Meade — Meade Co. preliminary plans grading 6.305 mi. Road K-12, 30 ft. H. L. Gilman, Court House, engr.

Kan., Oswego—Soon takes bids charts surfacing 8.4 mi. Mound Valley-Cherryville Rd., 28 ft.—3 mi. Parsons-Southwest Rd., 28 ft.—5 mi. Angola-East Rd.—2.5 mi. Parsons-North Rd.—7 mi. Oswego-Southwest Rd.—3 mi. Oswego-Angola Rd. J. F. Grady, Court House, engr.

Kan., Ottawa—Franklin Co., soon takes bids sand clay surfacing 12 mi. U. S. road 50S, Project 729. E. F. Lovelace, Court House, engr.

Missouri — State Hy. Comn., Jefferson City, grading, paving 163.65 mi. 22 projects, in Andrew, Barry, Benton, Buchanan, Cape Girardeau, Clay, Crawford, Dallas, Greene, Knox, Lincoln, Laclede, New Madrid, Nodaway, Pemiscot, Pettis, Phelps and Webster Counties. T. H. Cutler, ch. engr.

Mo., St. Louis — Preliminary plans alternate types paving January, Knox and Enright Aves., Hurst, French, Trainer Courts, Agnes, Herder, Odell, Rosalie, Hudler, Elmback, Utah and Laurel Sts. W. W. Horner, city engr.

Mo., St. Louis—Bd. P. Serv., City Hall, soon takes bids grading, concrete paving 29,250 sq.yd. alleys in City Blocks 1483, 1974, 2913, 2933, 3177, 3178, 3269, 3608, 3840, 5841, 5863, 5920, 2829, 4073, 4091, 4653, 5733 W, 5839 and 6054. $78,975. W. W. Horner, City Hall, engr.

Texas—State Hy. Dpt., Austin, grading, bridging 29.658 mi. Hy. 28, Hale Co., $105,000, L. O. Cox, Plainview, resident engr.—8.403 mi. Hy. 6, Grayson Co., $45,000, J. G. Rollins, Sherman, resident engr.—14.511 mi. Hy. 79, Throckmorton Co., $75,000, J. E. Pirie, Throckmorton Co., resident engr. —0.984 mi. Hy. 12, Jackson Co., $30,000, D. K. Shepard, Edna, resident engr.

Tex., Alamo Heights—Curbing, asphalt paving 3.85 mi. $90,000. S. F. Crecelius, 201 Torcido Dr., San Antonio, engr.

Tex., Corpus Christi—Widening 5 blocks Staples St., from 60 to 80 ft., paving from present 30 ft. width to 60 ft. $90,000. H. L. Shaw, city engr.

Tex., Hallettsville—Lavaca Co. grading 8.728 mi. Hy. 109, Rd. Dist. 3-4 to Fayette Co. line, 26 ft. $50,000. W. H. Koether, Hallettsville, co. engr.

Tex., Harlingen — City plans widening Jackson St. 80 ft. $30,000.

Tex., Karnes City—Karnes Co. grading, bridging 9.205 Hy. 112, S.A.P. 789-A, 26 ft. $65,000. E. F. Fehrenkamp, Karnes City, co. engr.

Oklahoma—State Hy. Dept., Oklahoma City, concrete slab surfacing 16,000 sq.yd. State Hy. 14, Woodward Co., $42,000; sheet asphalt surfacing 31,600 sq.yd. U. S. Hy. 66, Beckham Co., $95,000. C. R. Mandigo, hy. engr.

Okla., Altus—J. E. Parks, chn. Jackson Co., rejected bids Nov. 19, grading 23.5 mi. Martha, Hester and Blair Rds. $30,000. W. A. Ingraham, Altus, engr.

Okla., Atoka—Paving 16 blocks business sect. 40 ft. To exceed $25,000. Benham Eng. Co., Perrine Bldg., Oklahoma City, engrs.

Okla., Clinton—Grading, concrete paving 10,000 sq.yd. 4th, 10th, 13th and Court Sts. $32,000. Benham Eng. Co., Perrine Bldg., Oklahoma City, engrs.

Okla., Heavener — Grading, concrete paving 12,000 sq.yd. business section. To exceed $25,000. J. H. Brannon, Heavener, engr.

Okla., McAlester — Pittsburg Co. preliminary plans grading 15 mi. Indianola-McAlester Rd., 28 ft. To exceed $25,000.

Okla., Newkirk — Kay Co. preliminary plans grading, 30 mi. Nardin-Uncas and Tyner Rds., 28 ft. $60,000. J. S. Clark, Newkirk, engr.

Okla., Oklahoma City—Grading, sheet asphalt paving 5,800 sq.yd. Thomas, Helen and Drexel Sts. $29,100. W. W. Small, City Hall, engr.

Okla., Oklahoma City — Grading, sheet asphalt paving 9 blocks, Highland and Mirimar Sts.; widening Avenue C from Harvey to Walker Sts., concrete paving West 13th St. To exceed $25,000 each. W. W. Small, City Hall, engr.

Okla., Oklahoma City—Grading, concrete paving 7,500 sq.yd. Granger St. To exceed $25,000. W. W. Small, City Hall, engr.

Okla., Verden—Preliminary plans paving 10 blocks residential streets, 26 ft. To exceed $25,000. H. H. Arnett, mayor.

Colorado—State Hy. Dpt., Denver, expending $3,660,000 for road construction,

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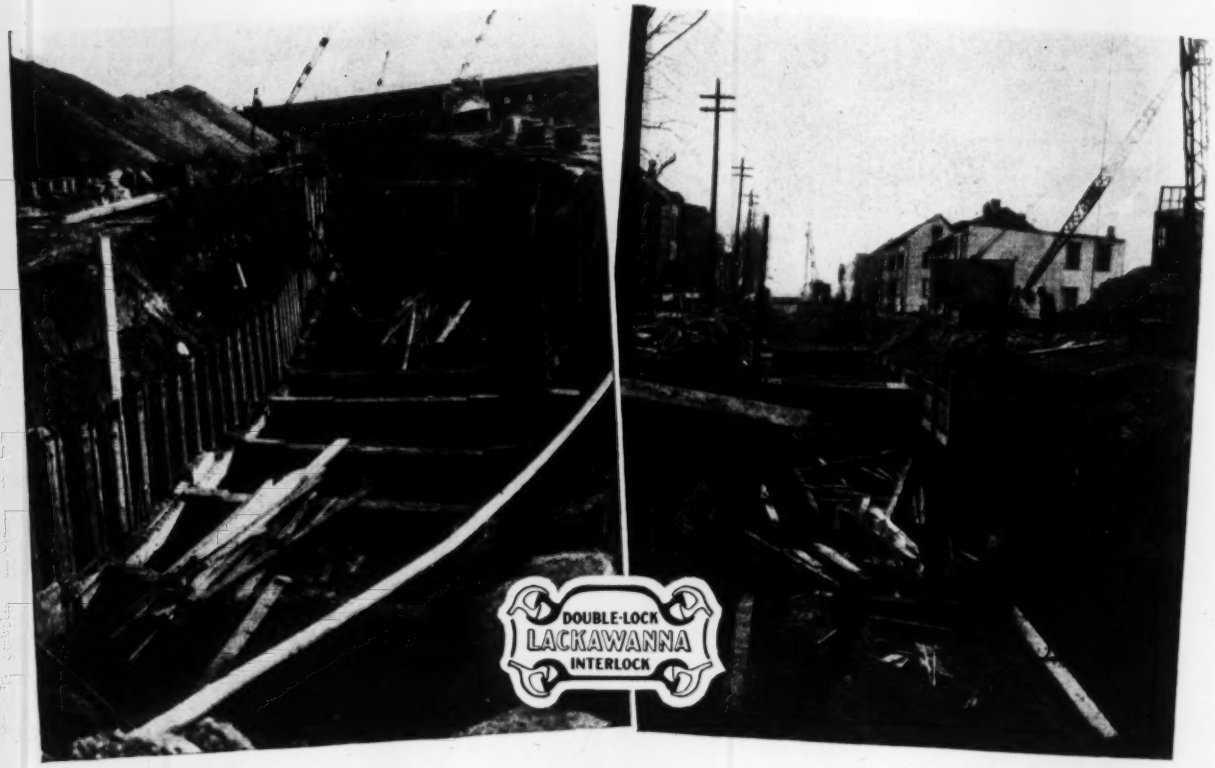

Completed sewer ready for back-fill.

Henry W. Horst Company, Contractors, Rock Island, Ill.

Preparing to drive steel Sheet Piling at head of job

Lackawanna 14" x 3/8" Arch-Web Piling

used in the construction of the Upper Delaware Collecting Sewer, Philadelphia, Pa.

The construction of Sections 4 and 5 of this sewer presents another example of the advantages of Lackawanna 14 in. x 3/8 in. Arch-Web Steel Sheet Piling.

The rapidity with which the piling was driven and pulled, and the efficient methods devised by the contractors made it easy to keep the excavation in the sheeted trench ahead of the sewer construction.

The compact section and large interlocks of Lackawanna 14 in. x 3/8 in. Arch-Web Piling particularly adapt it to rapid, repeated driving and pulling.

Bethlehem Piling Engineers will gladly supply detailed information about Lackawanna Piling Sections and discuss the application of Lackawanna Piling to any project.

Bulletin 115, featuring Lackawanna Steel Sheet Piling Sections, will be mailed to you upon request.

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BETHLEHEM

Streets and Roads (Continued)

$1,400,000 maintenance during 1929. L. D. Blauvelt, Denver, state hy. engr.

Colo., Pueblo—Pueblo Co. appropriated $200,000, road and bridge work during 1929. C. A. Reese, co. engr.

N. M., Clovis—Devlin Eng. Co., engrs., 715 Fisk Medical & Professional Bldg., Amarillo, Tex., rejected bids Nov. 2, warrenite bitulithic paving 6,000 yd., for City. $25,000.

Calif., Los Angeles — Los Angeles Co., improving C. I. 788, Honolulu Ave. $46,-061. G. W. Jones, Hall of Records, engr.

Calif., Salinas—Monterey Co., constructing Salinas-Monterey Rd. and bridges, $580,000—Salinas-Watsonville Rd., $323,000 — King City-Jolon Rd., $144,000 — Soledad-King City Rd., $40,000—San Lucas-Lockwood Rd., $40,000—Pacific Grove-Carmel Rd., $85,000—Watsonville-San Juan Rd., $35,000—Castroville-Salinas Rd., $45,-000—miscellaneous smaller jobs, $577,000. H. F. Cozzens, Salinas, co. engr.

Calif., San Diego—Common Council grading, concrete curbing, 6 in. concrete paving 82,171 sq.ft. Andrews, Columbia, Wellborn, Guy, Puterbaugh and Winder Sts.; 295,650 sq.ft. Fanuel, Pacific and Frontera Sts. H. W. Jorgensen, city engr.

Calif., San Francisco—Grading, 3 in. asphalt on 8 in. concrete paving 466,000 sq.ft. 19th Ave. M. M. O'Shaughnessy, city engr.

Calif., Tulare—Grading, curbing, walks, paving Alpine, Inyo Sts. To exceed $25,000.

Ont., Barrie — Council concrete paving Bayfield Ave. $35,000. James, Proctor & Redfern, 36 Toronto St., Toronto, engrs.

Ont., Durham—Concrete, asphalt or bitulithic on concrete or macadam paving 10,-000 sq.yd. main street. $30,000-$50,000. Engineer not selected.

Bids Asked

Maine — Dec. 12, by State Hy. Comn., Augusta, graveling 3.33 mi. Federal Aid Projects 109-B and C. L. D. Barrows, ch. engr.

New Hampshire—Dec. 7, by State Hy. Dpt., Concord, 2 bridges, 3 in. on 6 in. gravel paving 2.329 mi. Mascoma Valley Rd., Grafton. L. F. Johnson, Lebanon, engr. Noted Nov. 22.

N. Y., Brooklyn — Dec. 12, by J. J. Byrne, pres. Brooklyn Boro, Boro Hall, grading Stanley Ave.—grading, curbing, flagging East 16th and North 14th Sts.—grading, curbing, flagging, asphalt on 6 in. concrete paving Avenues N, and R, East 46th, East 48th, East 55th Sts.—rein.-con. caps and pipe railings upon new steel bulkheads on north and south approaches Stillwell Avenue Bridge over Coney Island Creek.

N. Y., Long Island City — Dec. 13, by B. M. Patten, pres. Queens Boro, Queens Subway Bldg., grading, sheet asphalt on prepared macadam repaving Hollis Ave.; granite block on concrete paving 47th Rd. (7th St.) and 6th St.

N. Y., New York—Dec. 12, by J. Miller, pres. Manhattan Boro, Municipal Bldg., sheet asphalt on concrete paving West End Ave.—grading, curbing, recurbing, flagging, reflagging, granite block on concrete repaving 12th Ave. — grading, widening, curbing, sheet asphalt on concrete repaving 34th St.

N. Y., St. George — Dec. 11, by J. A. Lynch, pres. Richmond Boro, Boro Hall, reconstructing roadway and dam at Clove Lake, Richmond Boro.

N. Y., St. George — Dec. 12, by J. A. Lynch, pres. Richmond Boro, Boro Hall, bituminous macadam paving franchise area Staten Island Midland Ry. on Canal St. between Broad and Wright Sts.

N. J., Scotch Plains—Dec. 7, by Twp. Comn., Municipal Bldg., curbing, 8 in. rein.-con. paving Jerusalem Rd. from Mountainside to Plainfield Aves. $75,000. H. Paff, Forest Rd., twp. engr. Noted Nov. 22.

Md., Baltimore—Dec. 12, by Bd. Awards, sheet asphalt paving 17,000 sq.yd. Contr. 494; grading 14,400 cu.yd. N. L. Smith, City Hall, hys. engr.

North Carolina—Dec. 18, by State Hy. Comn., Raleigh, **(P. means Project)**, grading and concrete or asphalt paving 7.2 mi. P. 7301, Davie Co. $142,000—3.7 mi. P. 5301, Guilford Co., $112,000—8.24 mi. P. 1962, Washington Co., $147,000—clearing, grading, topsoiling 11.96 mi. P. 663, Richmond Co., $97,200—grading, asphalt on gravel surfacing 10 mi. P. 373, Pender Co. $85,000— clearing, grading 20.98 mi. P. 320, Brunswick Co., $78,800. L. R. Ames, Raleigh, engr.

South Carolina—Dec. 11, by State Hy. Dpt., B. M. Sawyer, ch. comr., Hotel Jefferson, Columbia, grading, topsoiling, graveling, bridging, concrete and asphaltic concrete paving 76.33 mi. hys. in Greenwood, Jasper, Kershaw, Lexington, Richland, Greenville, Lancaster and Marion Counties; bridges in Aiken, Chester, Greenville, Anderson, McCormick and Spartanburg Counties.

Ala., Birmingham — Dec. 31, by City Comn., sidewalks, curbing, guttering, 2 in. asphalt on 6 in. concrete paving 2 blocks 4th Ave., S., $13,600—grading and 6 in. concrete paving 2 blocks 16th Alley N., $900—grading and 7 in. concrete paving 600 ft. 4th Alley N., $2,000—7 in. concrete paving 1 block 9th Alley, $3,150—8 in. concrete paving 1 block 23rd St., S., $4,800. A. J. Hawkins, city engr.

Miss., Corinth—See "Contracts Awarded."

La., Natchitoches — Dec. 11, by O. F. Himel, city secy. and treas. grading, rein.-con. paving Normal Blvd., Davie, Trodeau and Cypress Sts. C. D. Evans, Shreveport, engr.

Tennessee—Dec. 28, by State Dpt. Hys. & P. Wks., Nashville, grading, 59.764 mi. roads in Shelby, Hamilton, Fentress, Montgomery, Sullivan, Williamson, Davidson and Johnson Counties—bridges in Henry, Stewart, Roane, Grundy and Cumberland Counties. H. S. Berry, hy. comr.; adv. E. N.-R. Dec. 6.

O., Akron—Dec. 10, by F. E. Swineford, dir. Pub. Service, clearing, grubbing 200 acres Akron Municipal airport site, between Triplett and Emmit Rds.

Iowa — Dec. 11, by State Hy. Comn., Ames, paving 7.997 mi. Road 218-A and C, Benton Co.—11.816 mi. Road 11, P-548-B, Buchanan Co.—6.255 mi. U. S. Road 65, F-265-B and C, and 4.01 mi. U. S. Road 65, F. A. 11-C and B, Warren Co. clearing 1.7 acres, constructing 170 lin.ft. wing dam, Skunk River Bridge, U. S. 161, F. A. B. 219, Henry Co. R. F. White, hy. comr.

Minn., Fergus Falls—Dec. 11, by W. Lincoln, aud. Otter Tail Co., grading 110,000 cu.yd. Job 2802, State Aid Rd. 21. $25,000. O. Skramstad, Fergus Falls, co. engr.

S. D., Dell Rapids—Dec. 18, by Village Clerk, concrete paving 10,000 sq.yd. $27,-000. W. E. Buell, 339 Insurance Exch., Sioux City, Ia., engr.

S. D., Gettysburg—Jan. 8, by B. Klein, city aud., paving 16 blocks. $56,000. Noted Nov. 1.

Mo., Independence—Dec. 18, by Comrs. Jackson Co., grading, concrete paving 39,031 sq.yd. 23rd St. Rd.; constructing bridge over Rock Creek and Blue Ridge Underpass. L. E. Koehler, Court House, hy. engr. Stayton & Veatch, 508 Interstate Bldg., Kansas City, consult. engrs.

Texas—Dec. 17, by G. Gilchrist, state hy. engr., Austin, 3 in. bituminous macadam paving 13.122 mi. hy. Shackelford Co. $111,-000, J. E. Pirie, Albany, resident engr.—grading, bituminous on concrete paving 3.744 mi. hy. Harris Co., $126,000, A. J. Wise, Houston Co., engr.—grading, 6.299 mi. hy. Wilbarger Co., $27,000, J. B. Nabors, Vernon, co. engr.—concrete paving 9.322 mi. Mitchell Co., $216,000, W. J. Van London, Colorado, co. engr.—grading, concrete paving 18.449 mi. hy. Madison Co. $450,000, A. McCormick, Madisonville, resident engr.—grading 20.927 mi. hy., Baylor Co., $72,000, H. S. Kerr, Seymour, resident engr.—13.403 mi. Hardeman Co. $72,000, J. B. Nabors, Quanah, resident engr.

Texas—Dec. 18, by G. Gilchrist, state hy. engr., Austin, concrete paving 24.383 mi. Hy. 33, Carson Co., $594,000, O. M. Simpson, Panhandle, resident engr.—grading and concrete paving 14.483 mi. Hy. 32, Freestone Co., $450,000, M. B. Hodges, Teague, resident engr. Noted Nov. 22.

Tex., Brownsville—Dec. 21, by W. O. Washington, engr. Cameron Co., 8 in. concrete paving 33 mi. Palmetta and East Brown Tract Blvds., Dilworth Crossing, Point Isabel, 14th St., Rangerville, Rio Hondo East, Military Grimes and Alta Palmas North Rds. $800,000.

Tex., Corsicana—Dec. 15, by Com. Court Navarro Co., c/o J. W. Hicks, co. judge, Corsicana, grading, concrete paving 12.39 mi. Cardinal Rd. 1, Unit 1, Sect. A, and Unit 2, Sect. C. McClendon & Purnell, Corsicana, co. engrs.

Tex., Stamford—Dec. 12, by City, c/o C. W. Zug, secy., vitr. brick, rock asphalt, bitulithic or concrete paving 65,000 sq.yd. various streets. Powell & Puckett, City Hall, engrs.

Okla., Chickasha — Dec. 13, by C. A. Chincholl, city clk., concrete paving 9,000 sq.yd. Missouri Ave. To exceed $25,000. R. O. Bradley, Chickasha, engr.

Okla., Maud—Dec. 11, by F. Fowler, city clk., 7 in. concrete paving 9,160 sq.yd. Madison, Cxford and Monroe Sts. To exceed $25,000. Long & Co., Colcord Bldg., Oklahoma City, engrs.

Washington—Dec. 18, by State Hy. Comn., Olympia **(F.A.P. means Federal Aid Project)**, grading 160,690 cu.yd. F.A.P. 132-C—150,170 cu.yd. F.A.P. 132-D—140,880 cu.yd. F.A.P. 132-E, all State Rd. 3, Benton Co.; 97,720 cu.yd. State Rd. 1, city of Tacoma, Pierce Co. S. J. Humes, state hy. engr.

California — Dec. 12, by C. H. Purcell, Dpt. P. Wks., Sacramento, concrete bituminous macadam paving 1.2 mi. Ventura and Santa Barbara Counties—four 60 ft. span concrete girder bridge on concrete piers, abutments, wing walls across Pine Valley Creek, 16 mi. east of Alpine, San Diego Co.

Bids Received

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, Nov. 28, from Grimm Contg. Co., 85-38 107th St., Richmond Hill, East 49th St. $1,261—from M. J. Grant, 215 Montague St., granite block paving West St., $14,932; 2nd Ave., $89,205—from B. Turecamo, New Cropsey Lane, sheet asphalt on concrete paving East 46th St. $6,147; East 96th St. $9,360; Rutland Rd. $9,435; West 1st St. $6,539; 19th Ave. $3,677; East 40th St. $6,363; West 1st St., $4,657. Noted Nov. 22.

N. Y., New York—B. S. Coler, comr. Dpt. Pub. Welfare, Municipal Bldg., Nov. 27, sidewalks, curbing, roadways, and lawns at Bronx General Hospital, from Asphalt Constr. Co., 2197 Madison Ave., $28,679. Noted Nov. 22.

N. Y., St. George — J. A. Lynch, pres. Richmond Boro, Boro Hall, Nov. 28, bituminous concrete repaving Willowbrook Rd. and Blackford Ave., from J. E. Donovan, 2207 Richmond Terrace, Port Richmond, $12,190 and $9,050 respectively—Amboy Rd., from Vanbro Constr. Co., 24 Elizabeth St., Port Richmond, $18,348—grading, paving Highview Ave., from J. Johnson J. V. Turecamo, foot Bay 32nd St., grading Sons, 455 Bway., West New Brighton, $7,050—sewer in Crescent Ave., from J. J. O'Rourke, 238 Gordon St., $2,651. Noted Nov. 22.

Pennsylvania—State Hy. Comn., Harrisburg, Nov. 23 **(R. means Route and A. Application)**, grading 8.247 ft. A. 5975, Indiana Co., from L. M. Hutchison, R. D. 1, Altoona, $24,704—one course rein.-con. paving 82.346 ft. R. 93, Sects. 1 and 3, Warren Co., and 7,475 ft. R. 157 Spur, A. 4593, Berks Co., from York Eng. & Constr. Co., 21 West Market St., York, $425,777 and $59,925 respectively—7,370 ft. As. 5855 and 5981, Lehigh Co., and 5,231 ft. R. 444, A. 5448, Lawrence Co., from Mignatti & Whelan, Bankers Trust Bldg., Phila., $80,907 and $52,482 respectively—3,626 ft. A. 5854, Lehigh Co., from Kulpmont Constr. Co., 1009 Chestnut St., Kulpmont, $34,678—19,892 ft. R. 234, Sect. 2, A. 5537, Cambria Co., from P. R. Beals, 75 Moeller Ave., Buffalo, N. Y., $173,812—13,711 ft. R. 140, Sect. 5, Schuylkill Co., from J. M. Eshleman, Landisville, $254,761—19,644 ft. R. 428, A. 5411, Venango Co., from J. C. Devine Co., Meadville, $144,046—highway and bridge on R. 84, Erie Co., from A. C. Bailey, Philipsburg, $29,829. Noted Nov. 8.

Indiana—J. D. Williams, dir. State Hy. Dpt., Indianapolis, Nov. 27, concrete paving 72,801 sq.yd. Sect. K, State Rds. 45 and 56, Dubois Co., from Globe Constr. Co., Evansville, $179,548—84,111 sq.yd. Sect. A, Rd. 24, Wabash Co., from J. C. O'Connor & Sons, Ft. Wayne, $188,077—83,931 sq.yd. Sect. B, Rd. 24, Huntington and Wabash Counties, from Tri-Lake Constr. Co., Columbia City, $203,899—102,725 sq.yd. Sect. B, Rd. 29, Decatur Co., from J. F. Kelley & Co., Terre Haute, $196,899—116,897 sq.yd. Rd. 53, Jasper Co., from W. F. Smith & Co., Rensselear, $193,322—54,409 sq.yd. Rd. 49, Porter Co., from P. T. Clifford & Son, Valparaiso, $91,556—106,689 sq.yd. Sect. O, Rd. 29, Decatur and Shelby Counties, and 65,646 sq.yd. Rd. 45, Dubois Co., from Berns Constr. Co., 3048 North Illinois St., Indianapolis, $181,180 and $115,503 respectively—13.061 mi. Rds. 45 and 56, Dubois Co., from Foulkes Constr. Co., Terre Haute, $283,208—bridges, grading 0.401 mi. Rd. 37, Monroe Co., from J. C. Ellis, Rockport, $31,741—0.661 mi. Rd. 67, Green Co., from Hart & Hart, Sanborn, $8,632. Noted Nov. 15.

Wis., Milwaukee—Dpt. P. Wks., R. E. Stoelting, comr., grading, paving Gruber Ave., from J. C. Bluhm & Son, 1299 Achilles Pl. $24,692—Hauser Ave., from Czerwinski Constr. Co., 816 Clinton St. $5,767—East Wisconsin and Fond du Lac Aves., from Badger Constr. Co., 97 East Wisconsin Ave. $38,426 and $54,367 respectively—Greenfield Ave., from White Constr. Co., 68 East Wisconsin Ave. $56,957.

Tex., Houston—Two course bituminous treating Fulton St. from Kali-Inla Paving Co., Houston, $29,650 est. $30,000—permanent paving MacGregor Dr, from Brown & Root, Post Dispatch Bldg., asphalt topping, $59,919 inverted penetration $47,292 est. $130,000. Noted Nov. 15.

Tex., San Antonio—For 1½ in. bitulithic on 10 in. macadam paving 165,000 sq.yd.

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Streets and Roads (Continued)

17 streets, from Southwest Bitulithic Co., 302 Castro St., $343,736.

California — State Hy. Comn., Sacramento, Nov. 21, grading, oil treated crushed rock surfacing 10.3 mi. Inyo Co., from G. W. Ellis, 1005 Kenneth Rd., Glendale, $102,390, est. $136,962—10.6 mi. Lake Co., from Vonder, Hellen, Pearson & Logan, Medford, Ore., $219,882, est. $251,679—grading 1.6 mi. Mono Co., from G. E. Fennell, Sacramento, $30,949, est. $19,465. Noted Nov. 8.

Calif., Los Angeles—Curbing, guttering, concrete paving 13,494 ft. San Fernando Rd. from Tyburn to Huron Sts., from P. J. Akmadzich, 821 Yale St., $504,737—25,562 ft. Chandler Blvd. and Colfax Ave., from W. F. Peck Co., 1120 North Las Palmas St., $231,115—5,916 ft., Weymouth Ave. and Aldine Court, from Griffith Co., 502 Los Angeles Ry. Bldg., $59,384.

Calif., Los Angeles — Supervs. Los Angeles Co., Nov. 19, curbing, guttering, rock and oil surfacing 177,478 sq.ft. Olive St. from V. Kovacevich, 1533 Loma St., Long Beach, $35,171; 2 in. warrenite bitulithic paving 106,340 sq.ft. Culver Blvd., from Braun, Bryan & Austin, 6244 Washington Blvd., $39,514. Noted Oct. 25.

Contracts Awarded

N. Y., Albany—Bd. Contr. & Supply, City Hall, repaving Northern Blvd. and improving Marwill St., to Sheehan Contg. Co., 53 Chappel St., $37,312 and $23,998 respectively.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, to Castle Bros., Johnson Pl., grading East 15th St. $4,165; Avenue X $12,628—to Grimm Contg. Co., 170 McKinley St., Midwood St., $8,137—to B. Turecamo, New Cropsey Lane, sheet asphalt on concrete paving East 5th St. $7,079; West 9th St. $15,445; 21st Ave. $3,939—to M. J. O'Hara, Neptune Ave. and West 19th St., 84th St. $4,411; 96th St., $6,312. Grand total $62,216. Noted Oct. 25.

N. Y., Brooklyn — J. J. Byrne, pres. Brooklyn Boro, Boro Hall, asphalt paving 11th Ave. and 71st St., to M. J. O'Hara, Neptune Ave. and West 19th St., $4,961 and $7,084 respectively; East 40th St., to D. J. McCoy Asphalt Corp., Avenue U and East 57th St., $7,528. Grand total $19,573. Noted Nov. 1.

N. Y., Long Island City—B. M. Patten, pres. Queens Boro, Queens Subway Bldg., Nov. 15, grading Seneca Ave., to Kordes Contg. Co., 59 Washington Ave., Brooklyn, $7,294—sheet asphalt on concrete paving Fisk and Woodside Aves., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $11,148 and $10,620 respectively—69th St., to Carbloc Paving Corp., Varick and Stagg Sts., $30,010—Jamaica Ave., to Highway Impvt. Co., Furmans Island, Brooklyn, $11,220—Farmers Ave. and Springfield Blvd., to Meehan Paving & Constr. Co., 90 West St., New York, $48,958 and $39,630 respectively—Home Lawn Ave., to W. P. MacDonald Co., Lawrence St., Flushing, $41,205. Grand total $200,085. Noted Nov. 8.

N. Y., New York—J. Miller, pres. Manhattan Boro, Municipal Bldg., grading, curbing, flagging, sheet asphalt on concrete paving West 165th St., and 59th (Grand Army Plaza) Sts., to C. D. Beckwith Seneca Ave. and Edgewater Rd., $6,422 and $1,806 respectively. Noted Nov. 8.

N. Y., West New Brighton (sta. Staten Island)—J. A. Lynch, pres. Richmond Boro, Boro Hall, St. George, concrete paving incinerator yard, to J. J. O'Rourke, 238 Gordon St., $3,433. Noted Nov. 15.

New Jersey—State Hy. Comn., Trenton, grading, 6 in. single line rein.-con., paving 64,190 sq.yd. Salem Co., to C. D. Prosser, Pitman, $242,979. Noted Nov. 15.

Md., Baltimore—Bd. Awards, sheet asphalt paving 12,700 sq.yd. Contr. 492, to timore & Ohio R.R., $53,336. Noted Nov. 8. P. Flanigan & Sons, Harford Rd. and Bal-

Virginia — State Hy. Comn., Richmond, grading, draining 0.898 mi. Project S206-C1, and 0.661 mi. Project S206-D, Madison Co., to Fredericksburg Constr. Co., Fredericksburg, $8,163 and $11,645 respectively; improving 0.203 mi. Project S296-1, Sussex Co., to Perkins & Barnes, Blackstone. Noted Nov. 22.

W. Va., Beckley—Raleigh Co., grading 4.8 mi. Lanark-Prince Rd., 27 ft., to Patsey Small Co., Bluefield, $66,218.

North Carolina — State Hy. Comn., Raleigh, one course graveling 4.86 mi. Wake Co., and clearing, grubbing, grading, top-soiling 14.76 mi. Lincoln Co., to N. L. Teer, Durham, $25,680 and $77,821 respectively—19.24 mi. Johnston Co., to Real Bros., Bear Creek, $102,414—clearing, grading, topsoiling 9.27 mi. Catawba Co. and 11.19 mi. Rutherford Co., to M. A. Kollock, Hendersonville, $45,093 and $61,686 respectively—clearing, grading 7.2 mi. Davie Co., to Powell Paving Co., Winston-Salem, $26,136—3.7 mi. Guilford Co., to C. B. Hester, Greensboro, $29,375. Grand total $368,205. Noted Oct. 18.

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Ala., Birmingham—To Walter J. Bryson Paving Co., Watts Bldg., 2 in. asphalt on 6 in. concrete paving 4 blocks 77th St. and Rugby Ave. S. $24,863; 1 block Prince Ave. $3,380; 4 blocks Rugby Ave. $24,210—to Dunn Constr. Co., Lincoln Life Bldg., 4 blocks 17th St. S. $15,013; 5 blocks Finley Ave. $20,553—to Wesco Co., 4501 2nd Ave. N., 2 blocks 2nd Ave. N. $6,645; 3 blocks 13th Ave. N. $17,211—to Southern Roads Co., Pioneer Bldg., 3 blocks 43rd Ave. $13,594; 1 block Georgia Rd. $2,041; 1 block 31st St. $4,111—to Independent Paving Co., 3828 1st Ave. S., 2 blocks 2nd Ave. S. $8,423—to Sullivan, Long & Haggerty, American Traders Bldg., 5 in. concrete paving 1 block 21st St., Ensley, $1,089; 1 block Avenue T $826—to W. H. Pattie, 2911 North 29th St., 6 in. concrete paving 1 block 15th Alley $1,645—to P. Richter, 1805 Pearson Ave., 1 block 28th Alley $1,611. Grand total $145,216. Noted Oct. 4, 11, 18 and Nov. 1.

Ala., Montevallo — City and Alabama State College, grading, 2 in. asphalt on 6 in. concrete paving 18 blocks streets leading to college, 30 and 40 ft., to W. J. Bryson Constr. Co., Montgomery, $85,000. Est. $90,000.

Miss., Corinth—Paving 17 blocks, by day labor. Noted Nov. 29.

Miss., Europa—Grading, curbing, sewers, concrete paving 22,200 sq.yd., to Hartman & Clark, Peoria, Ill. and Starkville. Noted Nov. 1.

Miss., Holly Spring—Marshall Co., grading 48,723 cu.yd. Corith-Memphis Rd., to Little & Lee, Inc., Memphis, Tenn., $31,755. Noted Nov. 1.

Miss., Raleigh — Supervs. Smith Co., Chancery Clerks Office, grading 109,462 cu.yd. Federal Aid Project 203-A, to Walter J. Bryson Paving Co., Jacksonville, Fla., $46,106. Noted Nov. 1.

Ohio—H. J. Kirk, dir. Hys., Columbus, bituminous macadam paving 4.8 mi. Sects. B-2, E and D-2 Fremont-Bowling Green Rd., Sandusky Co., to Peerless Constr. Co., Fremont, $93,810; concrete beam bridge Sect. "D," Georgetown-Wilmington Rd., Clinton Co., to L. C. Love, Sidney, $18,565. Noted Nov. 15.

Ohio—H. J. Kirk, dir. Hys., Columbus, concrete paving 3.789 mi. Sect. "B" East Liverpool-East Palestine Rd., Columbiana Co., to Laughlin Coal & Builders Supply Co., Canton, $105,824—0.436 mi. Sunbury Grade Separation, Delaware-Newark Rd., Delaware Co., to W. C. Moore, Marysville, $28,819 — bituminous macadam paving 4.8 mi. Sect. "B-2 and others" Fremont-Bowling Green Rd., Sandusky Co., to Peerless Constr. Co., Fremont, $93,810. Grand total $228,453. Noted Nov. 15.

O., Cincinnati — Park Comrs., Gilbert Ave., concrete curbing, sheet asphalt paving 18,000 sq.yd. and concrete paving 8,500 sq.yd. Victory Parkway, to Republic Asphalt Co., 857 Wehrman Ave., $134,338. Est. $158,360.

O., Columbus—W. H. Duffy, dir. Serv., grading, curbing, sewer and water connections, brick paving Summit St., to R. J. Dienst, 209 South High St., $90,070—widening, asphalt paving Webster Park Ave., to Cleveland Trinidad Asphalt Paving Co., Grand Theater Bldg., $24,390—4 avenues, to B. F. Patterson, 999 West Goodale St., $64,766. Grand total $179,226. Noted Nov. 8.

O., Toledo — Lucas Co., tar macadam paving 37,700 sq.yd., to T. P. Garrigan, Glenwood Court, $75,786—14,000 sq.yd., to Phil. Gerrigan & Son Co., Toledo, $31,212—concrete paving 3,600 sq.yd., to S. E. Johnson, 421 13th St., $207,864—15,300 sq.yd., to Launder & Son, 232 Vine St., $39,120—20,400 sq.yd., to C. M. Gray, Waterville, $39,357—6,000 sq.yd., and lake asphalt macadam paving 68,000 sq.yd., to Laungerderfer Co., Spitzer Bldg., $19,961 and $224,724 respectively. Grand total $638,024.

Ind., Indianapolis—At office Trustees of Indiana World War Memorial, 102 War Memorial Bldg., 777 North Meridian St., asphalt paving part of World War Memorial Plaza, to Mead Constr. Co., 906 Lemcke Bldg., $33,033. Noted Oct. 4.

Ind., Indianapolis—Marion Co., graveling 1 mi. and 92 ft. span bridge, to E. F. Smith Co., South Harding St., Indianapolis, $21,892. Est. $27,059. Noted Nov. 15.

Michigan—State Hy. Dpt., Lansing, to State Constr. Div., Lansing, C. M. Zeigler, supt., graveling 19 mi. MO5-16, C-1, Antrim Co., 20 ft. est. $209,000—concrete paving 3.067 mi. FO19-24, C-3, 20 ft. est. $110,000, and grading 14 mi. MO19-21, C-1, est. $140,000, both in Clinton Co. Grand total $459,000.

Wis., Milwaukee—Dpt. P. Wks., R. E. Stoelting, comr., to Eastern Constr. Co., 878 Franklin Pl., improving Gorden St. $1,285—to W. F. Hunt, 445 Milwaukee St., Hopkins St. $36,519 62nd St. $3,798—to Czerwinski Constr. Co., 816 Clinton St., Moltke Ave., $14,941—to J. C. Bluhm, 1299 Achilles Ave., Townsend St. $3,912—to Gumz & Switalski, 831 13th Ave., Weil St. $1,021—to White Constr. Co., 68 East Wisconsin Ave., East Water St. $20,554, Ogden Ave. $24,811, State St. $35,428. Grand total $142,269. Noted Nov. 22.

Iowa—State Hy. Comn., Ames, to J. P. Abramson, 2902 Cottage Grove Ave., Des Moines, paving 9.142 mi. Butler Co. $236,539; 4.88 mi. Grundy Co. $124,111—to McCarthy Impvt. Co., Kahl Bldg., Davenport, 17.274 mi. Jones Co. $449,533—to Moran Constr. Co., Omaha, Neb., 11.068 mi. Pottawattamie Co. $252,082—to Harrison Eng. & Constr. Co., Mutual Bldg., Kansas City, Mo., 4.163 mi. Cerro Gordo Co. $93,392; 13.9 mi. Harrison Co. $325,566; 11.6 mi. Harrison Co. $250,977; 10.594 mi. Monona Co. $246,261; 6.977 mi. Worth Co. $155,397—to G. W. Condon, 415 Farnum Bldg., Omaha, Neb., grading 1.51 mi. Fremont Co. $13,084—to V. L. Lundeen, Missouri Valley, 2.412 mi. Marion Co. $29,034. Grand total $2,175,975. Noted Nov. 22.

Kan., Abilene — Dickinson Co., sand graveling 9 mi. Project 4-13-K704, to W. D. Shay, McPherson, $17,226—7.4 mi. Project 4-14-K 705, to F. F. Eberhardt Paving Co., Salina, $14,124. Noted Nov. 8.

Kan., Independence — Montgomery Co. grading, bridging 4.973 mi. Federal Aid Project 285, Sect. B, 30 ft., to A. G. Sherwood, Independence, $30,631. Noted Oct. 25.

Kan., Marion — Marion Co., improving 12.369 mi. Federal Aid Project 317-B, U. S. Rd. 50-N, road work and 2 bridges to Campbell Bros., 608 Manufacturers Exch. Bldg., Kansas City, Mo., $75,586 and $7,698 respectively—1 bridge, to J. E. Hed, Salina, $6,285—1 bridge, to Mid-State Constr. Co., Hastings, Neb. $8,413. Grand total $97,982. Noted Nov. 8.

Montana — State Hy. Comn., Helena, crushed graveling 9.84 mi. Rosebud and Custer Counties, to Basin Constr. Co. & Herbert Mills, Basin, Wyo., $27,720—10.459 mi. Cascade Co., to L. P. Thornquist, Great Falls, $26,979—9.381 mi. Fergus Co., to J. L. McLaughlin, Choteau, $25,177—bridges in Lewis and Clark Co., to E. R. Hays, Bozeman, $12,276. Grand total $92,152. Noted Nov. 15.

Mo., Independence—Jackson Co., grading, concrete paving 4.311 mi. Oak Grove Rd., and 3.394 mi. Oak Grove Rd. from Oak Grove to Mecklin School, to C. H. Atkinson Paving Co., Watertown, S. D., $110,491 and $94,932 respectively; bridges on Oak Grove Rd. from Sni Mills to Mecklin School, to G. W. Condon, 223 Grain Exch. Bldg., Omaha, Neb., $64,258. Grand total $269,681. Noted Oct. 25.

Mo., Plattsburg — T. F. Downey, clk., grading, curbing, 7 in. concrete paving 11,335 sq.yd. Bway., to E. D. Tyner Constr. Co., 14th St. and Elmwood Ave., Kansas City, $33,933. Noted Nov. 8.

Texas—G. Gilchrist, state hy. engr., Austin, grading, bridging 12.12 mi. hy. Leon Co., to B. F. Brooks Constr. Co., Love Field, Dallas, $88,830—17.193 mi. Shackelford Co., to E. F. Bucy & Son, and C. T. Childs, P. O. Box 177, Rising Star, $99,725—7.837 mi. Archer Co., to Burges & Gilstrap, Iowa Park, $22,294—7.709 mi. Matagorda Co., to Chiles & Jensen, Palacios, $30,266—12.561 mi. Matagorda Co., to S. F. Vann, P. O. Box 267, Trinity, $60,090—20.141 mi. Mitchell Co., to Tibbetts Constr. Co., 714 Neil P. Anderson Bldg., Ft. Worth, $100,147—19.256 mi. Knox Co., to Abe Anderson & Son, Bowie, $43,673—4.557 mi. Hays Co., to Bart & Moore, Inc., P. O. Box 862, San Antonio, $28,018—16.959 mi. Goliad Co., to Heldenfels Bros., Rockport, $57,664—6.794 mi. Bell Co., to C. C. Moore, Temple, $24,852—grading, bridging, gravel surfacing 20.005 mi. El Paso and Hudspeth Counties, to Lee Moore Constr. Co., El Paso, $127,789—bituminous macadam on gravel paving 7.819 mi. Nolan Co., to R. B. Sparks, 225 North Brighton St., Dallas, $55,995—grading, concrete curbing, bituminous filled brick on concrete paving 1 mi. Tarrant Co., to Standard Paving Co., 251 Majestic Bldg., Ft. Worth, $94,301. Grand total $833,644. Noted Nov. 8 and Nov. 15.

Tex., Corsicana—Navarro Co., grading, bridging, concrete paving 9 mi. Lateral Rd. 2, Sects. A, B and C, to F. P. McElwrath, Corsicana, $112,584.

Tex., Edinburg—Hidalgo Co., grading, bridging, concrete paving 101 mi. roads in Dists. 3, 4 and 7, Alamo, Edinburg and Donna, to W. L. Pearson & Co., 806 Nixon Bldg., Corpus Christi, $1,827,448. Noted Oct. 25 and Nov. 1.

Streets and Roads (Continued)

Tex., El Campo—City Comrs., for permanent paving, to Texas Willite Co., Grayson and McCall Sts., Houston, $134,620. Est. $150,000. Noted Oct. 25.

Tex., Houston—For 3 in. brick on 8 in. concrete paving Navigation Blvd. to A. M. Arnold & Co., 113 North Buffalo St., $45,577 est. $60,000; permanent paving Lowell and Brunner Sts., to S. Shambaugh, 1401 Dowling St., $121,045, est. $150,000. Noted Nov. 22.

Tex., Lefors—Gray Co., vibrolithic concrete paving 3.7 mi. oil field road south of Pampa, to Stuckey Constr. Co., Wichita Falls and Pampa, $106,560; grading 6 mi. Hy. 33, to J. P. Foty, Wichita Falls, $38,000. Noted Oct. 11.

Tex., Rockdale — City, 7 in. concrete paving 119,000 sq.yd., concrete curbing 56,000 lin.ft., to F. P. McElwrath, Corsicana, $258,006. Noted Nov. 1.

Okla., Allen—Grading, paving 8 blocks Broadway Ave., 30-76 ft., to Fry Bros., Ada, $42,260. Est. $45,000. Noted Nov. 1.

Okla., Chickasha — Grading, paving 9 blocks Dist. 38, to Edminston Constr. Co., Chickasha, $26,654. Est. $28,410.

Okla., Oklahoma City — Grading, sheet asphalt paving 15,000 sq.yd. Towers Court, East Ave. and 23rd St., to Granite Bituminous Paving Co., Railway Exch. Bldg., St. Louis, Mo., $78,898. Est. $82,000.

Okla., Oklahoma City—Oklahoma Co., grading, graveling 3 mi. Sect. 6, 28 ft., to Maney & Alley, Empire Bldg., $26,700. Est. $28,000. Noted Nov. 8.

Okla., Tulsa—Grading, curbing, sewers, water line, 7 in. concrete paving 7,413 sq. yd. Gary and 17th Sts., Impvt. Dist. 901, to Standard Paving Co., 215 East 2nd St., $22,419. Est. $29,098. Noted Oct. 25.

Colo., Denver—C. D. Vail, mgr. Parks & Impvts., curbing, surfacing all streets bounded by East 6th and East 13th Aves., Dahlia St. and Colorado Blvd., to H. C. Lallier Constr. Co., Continental Trust Bldg., gravel $62,289 or crushed rock $66,380.

Colo., Las Animas — Paving business streets, to E. Thwaits, 669 Lafayette St., Denver, $60,000.

Idaho—State Hy. Comn., Boise, crushed rock surfacing 7,300 cu.yd. F.A.P. 139-B, to S. Orino, Spokane, Wash., $42,413; crushed graveling 2,900 cu.yd. State Aid Project 80-B, to Duffy Reed, Twin Falls, $7,747.

Idaho—State Hy. Comn., Boise, grading, graveling 11,600 cu.yd. State Aid Project 135-A, to O. Nelson, Logan, Utah, $28,726; improving 3.739 mi. Jerome Co., to Joslin & McAllister, Spokane, Wash., $13,384.

Arizona — State Hy. Comn., Phoenix, improving 14 mi. Casa Grande-Gila Bend Hy., Sect. B, to W. M. Tenney, Jr., Alpine, Alternate B $35,464—bridge culverts on Superior-Miami Hy. A.F.E. 666 and 655, to R. H. Martin, Tucson, $12,475—concrete culvert on Phoenix-Temple Hy., to H. A. Hazzard, Tempe, $3,076. Grand total $51,015. Noted Nov. 8.

Washington—See "Bridges."

Wash., Seattle—Bd. P. Wks., grading, concrete sidewalks on Adams St., to Joe Paduano & Co., 7301 Dibble Ave. N. W., $64,806.

California — State Hy. Comn., Sacramento, grading, concrete paving 7.2 mi. San Diego Co., to Basich Bros. Constr. Co., 3788 South Vermont St., Los Angeles, $259,100; grading, surfacing 2.9 mi. Placer Co., to J. E. Johnson, Stockton, $47,092. Noted Oct. 25.

California—State Hy. Dpt., Sacramento, grading, concrete paving 3.3 mi. San Luis Obispo Co., 20 ft., to Cornwall Constr. Co., Santa Barbara, $132,713—1.8 mi. Fresno and Madera Counties, 20 ft., to Hanrahan Co., Standard Oil Bldg., San Francisco, $83,709 — grading, bituminous macadam paving 3 mi. Marin Co., 24 ft., to Granfield, Farrar & Carlin, 67 Hoff St., San Francisco, $103,828 — grading, oil treated crushed rock surfacing 20.8 mi. San Bernardino Co., 20 ft., to Dillon & Boles, 118 North Crescent Blvd., Los Angeles, $237,696. Grand total $557,946. Noted Nov. 29.

Calif., Long Beach—Curbing, walks, improving 56th and 57th Sts., to P. L. Hedrick, 1016 Sanborn Ave., Los Angeles, $53,287.

Calif., Los Angeles — Curbing, resurfacing, sidewalks, concrete paving 35,759 ft. Bedford St., to G. H. Oswald, 366 East 58th St., $415,197; 3,781 ft. Tyrone Ave., to Griffith Co., 502 Los Angeles Ry. Bldg., $40,959.

Calif., Monterey Park — Grading, 9-7-9 in. concrete paving 657,736 sq.ft. and 3 in. asphaltic concrete paving 377,320 sq.ft. both on disintegrated rock base A. & I. 2, Atlantic Ave., to G. H. Oswald, 366 East 58th St., Los Angeles, $335,678. Noted Nov. 8.

Calif., San Diego — Paving, improving Foothill Blvd., to Watson & Sutton, Nowell Bldg., $54,991. Noted Nov. 22.

Calif., San Diego—Grading, curbing, concrete sidewalks, 6 in. concrete paving 106,169 sq.ft. Coast Blvd., to Watson & Sutton, Box 396, $30,926. Noted Nov. 22.

Calif., Yuba City — Supervs. Sutter Co., grading, asphaltic concrete paving 6 mi. Feather River Rd., to M. J. Bevanda, Marysville and Stockton, $78,710. Noted Nov. 1.

Ont., Toronto—Concrete curbing, guttering, sheet asphalt on concrete paving south side Commissioners St., to Kilmer & Barber, 10 Adelaide St. E., $30,411; north side Commissioners St., to Godson Contg. Co. Ltd., 203 Richmond St. W., $34,704.

Public Bond Elections

Coming Bond Elections

Waterworks—Edison, Neb., Dec. 17, $18,000.
Waterworks—Bison, Kan., Dec. 11, $30,000.
Waterworks—Odell, Neb., Election soon, $30,000.
Waterworks—Steel City, Neb., Dec. 4, $16,000.
Waterworks—Terrell, Okla., Dec. 7, $20,000.
Waterworks—Lucas Co., Toledo, O., selling $26,770. Dec. 6.
Sewers — Detroit Lakes, Mich., Dec. 18, $80,000.
Sewers—Colorado Springs, Colo., in April $70,000.
Bridge—Wheeling, W. Va., $1,600,000.
Roads—Green Lake, Wis., Jan. 8, $905,000.
Schools—St. Cloud, Minn., $275,000.
School—Piedmont, Calif., $175,000.
School—Ukiah, Calif., $150,000.

Bonds Voted

Waterworks—Sudan, Tex., $47,000.
Waterworks—Winters, Tex., $46,000.
Waterworks—Konawa, Okla., $85,000.
Waterworks—Luther, Okla., $85,000.
Waterworks—Clympia, Wash., $225,000.
Sewers—Hazelton, Pa., $400,000.
Sewers—Emporia, Kan., $108,000.
Bridges — University (br. St. Louis) Mo., $75,000.
Parks — University (br. St. Louis) Mo., $450,000.
Subway—Emporia, Kan., $55,000.
Schools—Macon, Ga., $500,000.
Roads—Shawno, Wis., $150,000.

Bonds Defeated

Waterworks—Golden City, Mo., $70,000.
Waterworks—Holdenville, Okla., $225,000.
Sewers—Golden City, Mo., $30,000.
Airport—Emporia, Kan., $40,000.
Roads—Clarendon, Tex., $1,000,000.
Roads—Macon, Ga., $500,000.

Buildings—Industrial

Proposed Work

Mass., Fall River — SERVICE, SALES and REPAIR GARAGE—Borden-Remington Co., 115 Anawam St., revised plans by E. M. Corbett, 167 Bedford St., 1 story, basement, 75 x 100 ft., brick, steel, plain found., Pleasant St. $45,000. Former bids rejected. Noted Apr. 5.

Mass., Lowell—PLANT—Merrimack Mfg. Co., Dutton St., A. Lyman, pres., brick additional unit, plain found., Dutton St. $40,000. Private plans.

Mass., Worcester—SERVICE GARAGE, FILLING STATION and REPAIR SHOP—D. F. Daly, 1053 Main St., plans by G. C. Walcott, 32 Franklin St., 1 story, 100 x 135 ft., brick, steel, plain found., Madison St. $60,000.

R. I., Pawtucket—MILL—Acme Finishing Co., M. Decker, in charge, addition to mill Front St. $40,000 or more. Engineer and architect not selected.

Conn., Hartford—BROADCASTING STATION—Travelers Insurance Co., W. T. I. C., Grove St., plans by Voorhees, Gmelin & Walker, 101 Park Ave., New York, 2 story, basement, 50 x 75 ft., brick, steel, on Avon Mountain. To exceed $150,000.

Conn., Hartford—GARAGE—I. Boyland, 112 Lafayette St., Stamford, plans by W. W. Dolliver, 136 Kent St., 1 story, 50 x 142 ft., brick, steel, concrete, Chapel St. $50,000.

Conn., Norwalk—SERVICE and SALES STATION—W. R. Austin, Washington St., South Norwalk, plans by Fletcher-Thompson, Inc., 542 Fairfield Ave., Bridgeport, 1 story, 60 x 250 ft., brick, steel, artificial stone, West Ave. $125,000.

N. Y., Brooklyn—FACTORY—See "Contracts Awarded."

N. Y., Brooklyn — FACTORY — Thamas Trading Co., Inc., L. Hirsch, pres., 40 Thames St., plans by M. Klein, 65 Court St., 4 story, 115 x 160 ft., brick, McKibben and White Sts. $175,000.

N. Y., Brooklyn—GARAGE—S. Manlay, c/o M. Klein, archt., 65 Court St., 1 story, 100 x 115 ft. garage, Lynch St. $40,000.

N. Y., Brooklyn—SERVICE GARAGE—Corporation, c/o S. Katz, 550 Bristol St., plans by Cohn Bros., 361 Stone Ave., 1 story, 100 x 114 ft., brick, concrete, Dean St. and Rochester Ave. $50,000.

N. Y., Brooklyn—SERVICE GARAGE—J. M. Maran, 119-11 196th St., St. Albans, plans by H. M. Sushan, 367 Fulton St., 1 story, 90 x 100 ft., brick, concrete, Gates and Bushwick Aves. $40,000.

N. Y., Brooklyn—SERVICE GARAGE—Baruch Lewitte, 8908 Northern Blvd., Jamaica, plans by M. Schantz, 25 Spruce St., New York, 2 story, 82 x 237 ft., brick, concrete, West 35th St. and Surf Ave. $100,000.

N. Y., Brooklyn—SERVICE GARAGE—P. Schwartz, Manhattan Ave. and Richardson St., plans by C. M. Spindler, 104 Montague St., 80 x 125 ft., brick, Manhattan Ave. and Richardson St. $40,000.

N. Y., Brooklyn—SERVICE GARAGE—S. Manlay, c/o M. Klein, archt., 65 Court St., 1 story, 100 x 160 ft., brick, concrete, Middleton St. and Marcy Ave. $50,000.

N. Y., Brooklyn — SERVICE GARAGE and LOFT—M. Bergrenn, 552 Ovington Ave., plans by W. E. Martin, 9401 5th Ave., 2 story, 80 x 81 ft., brick, 64th St. and 7th Ave. $40,000.

N. Y., Jamaica — MANUFACTURING and GARAGE — Tulles & Hares, Inc., 21 Hillcrest Ave., plans by W. Sanborn, c/o owner, 4 story, 51 x 103 ft., brick, Beaufort Ave. and Rockaway Blvd. $50,000.

N. Y., New York — CREAMERY — Sheffield Farms, Inc., 524 West 57th St., bids early in January, altering creamery, 527 West 125th St. To exceed $40,000. F. A. Rooke, 12 East 41st St., archt.

N. Y., New York — FACTORY — J. Cestari, 630 Sackett St., bids in December or January, 2 story, 60 x 100 ft., brick, Sackett St. $40,000. Lama & Proskaner, 391 Fulton St., archts. Noted Nov. 1.

N. Y., New York—GAS STATION and GARAGE — A. Le Pinto, 2005 Stillwell Ave., plans by R. Ludwig, 316 West 57th St., New York City, 2 story, 91 x 115 ft., brick, concrete, Hubbard St. and Neptune Ave. $100,000.

N. Y., Richmond Hill (Ind. br. Jamaica) —MILK DEPOT — Sheffield Farms, 524 West 57th St., New York, plans by F. A. Rooke, 12 East 41st St., New York, 3 story milk depot. $150,000.

N. J., Kearny (sta. Arlington)—FACTORY—Western Electric Co., 195 Bway., New York, soon lets contract four 6 story, basement, brick, steel buildings, plain founds. $1,250,000. Private plans. Noted Nov. 15.

N. J., Newark—ICE PLANT—B. Leibal, 250 Badger Ave., 2 story, brick, steel, plain found., 250-70 Badger Ave. $75,000. Private plans.

Pa., Ambridge—TUBE MILL—Standard Seamless Tube Co., 1 story, brick, steel addition. $500,000. Private plans. H. M. Wharton, c/o owner, engr.

W. Va., Huntington—LOCOMOTIVE REPAIR SHOPS—"See Railways under West Virginia."

Ga., Atlanta—LAUNDRY—Stoddard Dry Cleaning & Dyeing Co., 18 Fort St., plans by G. L. Preacher, Wynne Claughton Bldg., 2 story, basement, 200 x 296 ft., three 25 x 100 ft. stores, brick, timber, Peachtree and 3rd Sts. Noted Nov. 22.

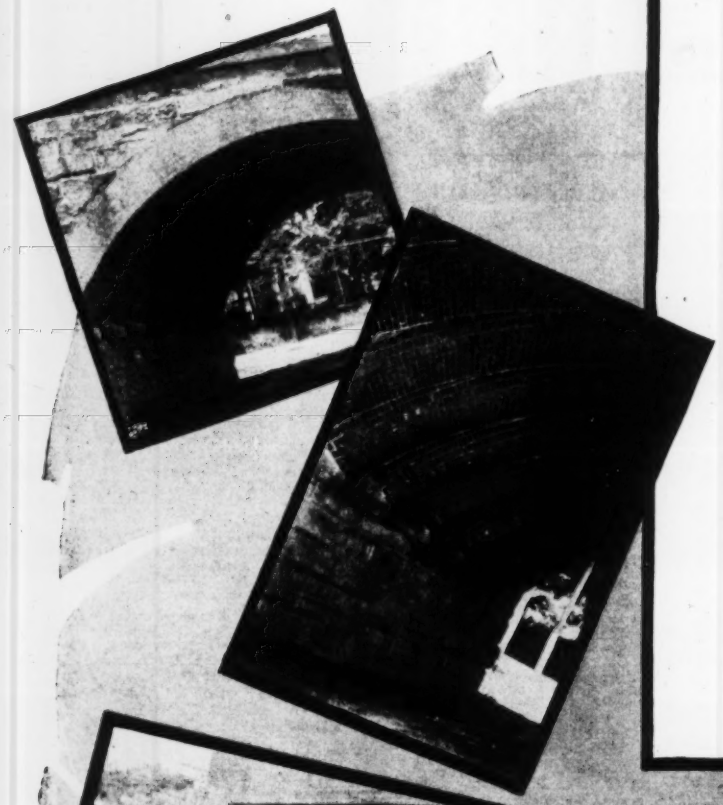
Ky., Ft. Thomas—ICE PLANT—City Ice & Fuel Co., E. C. Balzhizer, vice pres., 6611 Euclid Ave., Cleveland, O., plans by W. A. Schmid, 3220 Jefferson Ave., Cincinnati, O., rein.-con., brick. $60,000.

Ky., Russell—CAR REPAIR SHOPS—"See Railway under West Virginia."

O., Cleveland—FACTORY—Easton Axle & Spring Co., C. J. Ochs, pres., East 65th St. and Central Ave., plans by George S. Rider Co., Century Bldg., 1 story, 51 x 130 ft., brick, steel, East 69th St. and Central Ave. $40,000.

Constr. News page 303

Good Old Common Brick



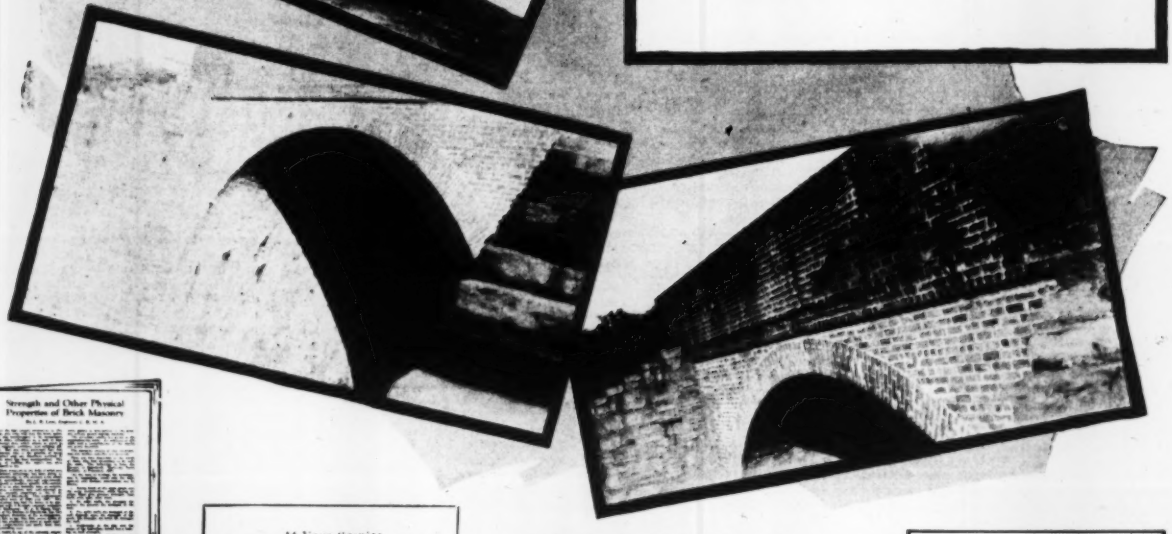
Some of this country's famous engineers tell us that when they have to design masonry structures to safely carry the heaviest loads they use good, old common brick masonry, and forget all fear of subsequent failure or deterioration.

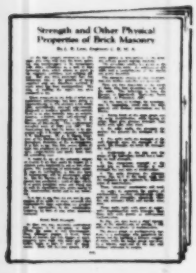
When heavy loads and impact and vibration forces have to be resisted in a structure which must last for all time without maintenance costs, you can depend upon brick masonry. No other material can exceed and but few equal its record.

At the left are shown two views of Brick Skew Arch Bridge, Locust Valley, N. Y. carrying Long Island traffic since 1889.

Below are shown two views of Brick Arch at Yaphank, N. Y., carrying Long Island Railroad traffic since 1849.

After years of constant use, Engineer of Bridges, Frederick Auryansen says both bridges are in excellent condition.




Strength and Other Physical Properties of Brick Masonry

This paper

gives in detail the results of these tests made by the Bureau of Standards and shows the strength AND OTHER PHYSICAL PROPERTIES of brick masonry. Write for a copy—no obligation.

At Your Service
These District Association Offices and Brick Manufacturers Everywhere

BOSTON
11 Beacon Street
CHICAGO
228 No. LaSalle Street
CLEVELAND
2124 Guarantee Title Bldg.
DENVER
1735 Stout Street
DETROIT
400 U. S. Mortgage Trust Bldg.
HARTFORD
226 Pearl Street
LOS ANGELES CALIF.
634 Chamber of Commerce Bldg.
NEW ORLEANS LA.
727 Canal Bank Bldg.
NEW YORK CITY
1716 Grand Central Terminal

THE COMMON BRICK MANUFACTURERS' ASSOCIATION OF AMERICA

2121 Guarantee Title Building
CLEVELAND, OHIO

BRICK *forever*

At Your Service
These District Association Offices and Brick Manufacturers Everywhere

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112 W. Plume Street
PHILADELPHIA, PA.
1420-2 Walnut Street
PITTSBURGH, PA.
524 Fourth Avenue
RALEIGH, N. C.
508 Commercial Nat'l Bank Bldg.
ROCHESTER, N. Y.
P. O. Box 773
SALT LAKE CITY
301 Atlas Block
SAN FRANCISCO, CALIF.
301 Sheldon Bldg.
SEATTLE
913 Arctic Bldg.
VANCOUVER, B. C.
701 British Columbia Min'g Bldg.

Buildings—Industrial (Continued)

O., Cleveland—FACTORY—Great Lakes Aircraft Corp., c/o C. F. Van Sicklen, 16800 St. Clair Ave., brick factory extension. $40,000. Private plans.

O., Cleveland—FACTORY—Natl. Lamp Wks. of General Electric Co., Nela Park, 1 story, 80 x 100 ft., rein.-con., brick addition, Nela Park. $40,000. Private plans.

O., Cincinnati — FACTORY — P. Goldsmith Sons Co., Findlay and John Sts., plans by Fechheimer & Ihorst, 1010 Schmidt Bldg., 5 story, rein.-con., brick addition, Findlay St. $150,000.

O., Cincinnati — HEATING PLANT — Union Gas & Electric Co., 4th and Plum Sts., W. W. Freeman, pres., central heating plant. $2,000,000. Columbia Eng. & Management Corp., 61 Bway., New York, engrs.

O., Hill Top (br. Columbus) — ICE PLANT — City Ice & Fuel Co., E. C. Balghizer, vice-pres., 6611 Euclid Ave., Cleveland, plans by W. A. Schmid, 3220 Jefferson Ave., Cincinnati, 1 story, brick, steel plant. $75,000.

O., Rossford—PHOTO GLASS FACTORY—Ford Plate Glass Co. 250 x 300 ft. and 140 x 1,100 ft. factory. A. Goodwillie, c/o owner, ch. engr.

O., Westwood (br. Cincinnati) — ICE PLANT—City Ice & Fuel Co., c/o E. C. Dalzhizer, vice pres., 6611 Euclid Ave., Cleveland, plans by W. A. Schmid, 3220 Jefferson Ave., Cincinnati, 1 story, rein.-con., brick, steel plant. $75,000.

Ind., Fairmount—PLANT—Fairmount P. P. Co. rebuilding plant, destroyed by fire. $150,000 loss.

Ind., South Bend — PLANT — Service Printing Co. plans by C. E. Miller, 210 Union Trust Bldg., rein.-con., brick, 200 South St. $45,000.

Ind., Valparaiso — FACTORY and POWER HOUSE — Fibroc Insulating Co., plans by Lockhart & Fett, 457 Associates Bldg., 1 story, 112 x 350 ft., brick, steel, $100,000.

Mich., Big Rapids—SUGAR REFINERY—National Artichoke Products Co., W. D. Fast, pres., artichoke sugar refinery, rein.-con., steel, plain found., $100,000. Engineer and architect not selected.

Mich., Detroit—FACTORY—Zenith Detroit Corp., Hart Ave., plans by Donaldson & Meier, 1188 1st Natl. Bldg., 2 story, 60 x 120 ft., rein.-con., brick, steel, plain found., Lycaste Ave. $50,000.

Mich., Pontiac—PRODUCTS PLANT—Concrete Unit Mfg. Co., 1710 Industrial Bank Bldg., Detroit, plans by A. O. Thomas, 1127 Detroit Savings Bank Bldg., Detroit, 2 and 3 story, rein.-con., brick, plain found., Leach Rd. $50,000.

Ill., Chicago—FACTORY—Pines Winterfront Co., 408 Sacramento Blvd., 2 story, rein.-con. automobile winterfront factory, 408 Sacramento Blvd. $1,000,000. Engineer and architect not selected.

Minn., Minneapolis—CREAMERY—Land O'Lakes Creameries, A. J. McGuire, genl. mgr., 2201 Kennedy St. N. E., plans by Ekman, Holm & Co., 601 Phoenix Bldg., 2 story, basement, 100 x 130 ft., rein.-con., brick addition, 2201 Kennedy St. N. E. $150,000.

Minn., Minneapolis — FACTORY — Grau-Curtis Co., 613 1st Ave. N.E., soon takes bids 2 story, 137 x 144 ft., brick, timber, 1st Ave. N.E. $100,000. Lang, Raugland & Lewis, 412 Essex Bldg., engrs.

Minn., Minneapolis—FACTORY—Pioneer Gravel Equipment Mfg. Co., E. E. Ellertson, pres., 2005 University Ave., soon takes bids 1 story, 180 x 200 ft., steel, concrete block, University Ave. $60,000. Sund & Dunham, 512 Essex Bldg., engrs.

Minn., Minneapolis — FOUNDRY and MACHINE SHOP — Diamond Iron Wks., 18th Ave. N. and 2nd St., rein.-con., brick, 18th Ave. N. and 2nd St. $150,000.

Mo., St. Louis — INK PLANT — Hill-Hentschel Ink Co., 622 North Main St., 2 story, basement, 75 x 162 ft., rein.-con., brick, Laclede Ave. west of Sarah St. $60,000.

Mo., St. Louis—TRUCK BODY PLANT—Owner, c/o I. T. Cook Co., Arcade Bldg., plans by P. J. Bradshaw, 718 Locust St., 1 story, basement, 160 x 200 ft., rein.-con., brick, Forest Park Blvd. at Sarah St. $80,000. St. Louis Body & Equipment Co., lessee.

Ark., Little Rock—COLD STORAGE PLANT—Ark Cold Storage Co., C. E. Rose, mgr., soon takes bids 2 story, rein.-con., brick, foot of Rock St. $200,000.

Texas — CASINGHEAD GASOLINE PLANT—Phillips Petroleum Co., Bartlesville, Okla., 4 unit casinghead gasoline plant in Jones Co. $60,000. A. H. Rinly, Bartlesville, Okla., engr.

Tex., Lufkin—ICE PLANT—Lufkin Ice Co., c/o J. L. Phillips, pres., Lufkin, 1 story, brick, steel, concrete, 60 ton capacity ice plant. $100,000. Private plans.

Okla., Bristow—REFINERY—Wilcox Oil & Gas Co., 310 West 6th St., Tulsa, 2,000-bbl. oil refinery. $40,000. Private plans.

Okla., Oklahoma City — FACTORY — Prest-O-Lite Co., 1520 West 35th St., Chicago, Ill., S. Draper, secy., sketches factory. $50,000. Private plans.

Okla., Oklahoma City—SPRING FACTORY—A. & B. Spring Co., 719 West Main St., 1 story, 75 x 140 ft., brick, 10th St. and Bway. $60,000. Engineer and architect not selected.

Okla., Yale—ICE PLANT—Yale Utility Co. sketches 25 ton raw water ice plant. $40,000. Private plans.

Wash., Bellingham—STORAGE and DISTRIBUTING PLANT—Union Oil Co., 40 x 60 ft. warehouse, 37,500, 12,000, 2,500 and three 2,000-bbl. storage tanks, McKenzie Ave. $150,000.

Wash., Seattle — IRON WORKS—Isaacson Iron Wks., 2917 East Marginal Way, 2 story, 70 x 240 ft., steel, 2917 East Marginal Way. $100,000.

Ont., Hamilton — BAKERY — Browns Bread Ltd., 462 Eastern Ave., Toronto, rein.-con., brick, steel, plain found. $150,000. Engineer and architect not selected.

Ont., Milverton — FACTORY—Honderich Furniture Co., concrete, brick, steel addition. $50,000. Engineer and architect not selected.

Ont., Toronto—FACTORY and OFFICE—Riley Eng. & Supply Co., 360 Dufferin St., 1 and 2 story, concrete, brick, steel, Sidney St., York Twp. $75,000-$100,000. Private plans.

Ont., Windsor — FACTORY — Swedish Crucible Steel Co., McDougall St., N. Olson, mgr., factory addition. $50,000.

B. C., New Westminster — GLASS BOTTLE FACTORY — Company being formed, glass bottle factory, City Industrial Area. $250,000. Engineer and architect not selected.

Bids Asked

Me., Bath—DAIRY PLANT—Oakhurst Dairy Co., c/o Cushman Baking Co., taking bids 1 story, brick, plain found., Center St. $40,000. H. S. Coombs, 11 Lisbon St., Lewiston, archt.

Mass., Leominster—SERVICE and REPAIR GARAGE—G. H. Radford, c/o H. L. Meacham, archt., 120 Front St., Worcester, taking bids 1 story, brick, steel, plain found., 650 North Main St. $40,000.

Mass., Malden (br. Boston)—FREIGHT HOUSE—See "Unclassified."

Mass., Worcester — FACTORY — Bieber Polar Soda Co., 111 Summer St., taking bids altering and constructing 1 story, 75 x 100 ft., brick addition, concrete found., Summer St. $40,000. G. A. Johnson, 16 Norwich St., archt.

R. I., Woonsocket—PLANT—American Paper Tube Co., Hazel St., taking bids 1 story process building addition, concrete, plain found. $40,000. W. F. Fontaine, 285 Main St., archt.

Conn., Hartford—FACTORY—Hart Mfg. Co., Hamilton St., taking bids 1 story, 60 x 122 ft., brick, rein.-con., Bartholomew Ave. $45,000. Mylchreest & Reynolds, 238 Palam St., archts.

Conn., Norwalk—SERVICE GARAGE—Dec. 7, by W. R. Austin, Washington St., 1 story, basement, 60 x 250 ft., brick, steel, West Ave., $125,000. Fletcher-Thompson Inc., 542 Fairfield Ave., Bridgeport, archt.

N. Y., Brooklyn—MILK DEPOT—Ferndale Farms, Inc., I. Kotchery pres., 1678 Bergen St., taking bids general contract 2 story, 100 x 200 ft., brick, Liberty and Snediker Aves. $40,000. E. M. Adelsohn, 26 Court St., archt. Noted Nov. 15.

N. Y., New York—BAKERY—D. Perlman, 813 Allerton Ave., taking bids separate contracts bakery, White Plains Rd. and Mace Ave. R. Gottlieb, 400 East Tremont Ave., archt.

N. Y., Rochester—FACTORY—Dec. 10, by S. Firestone, engr., 59 South Ave., 1 story, basement, brick, steel, timber, plain found., St. Paul St. for Hickok Mfg. Co., 299 State St. Est. $500,000.

Pa., Contesville — CARBONIZATION PLANT — See "Contracts Awarded."

O., Cleveland — COLD STORAGE and KITCHEN — Dec. 26, by J. E. Harper, dir. P. Welfare, Columbus, 2 story, basement, 80 x 90 ft., concrete, brick, at State Hospital. $125,000. H. B. Briggs, Ohio Hartman Bldg., Columbus, archts. Noted Oct. 11.

O., Wilberforce — POWER HOUSE — Dec. 27, by J. O. Haithcox, secy. Bd. Trustees Wilberforce University, 47 x 85 ft., concrete, brick, on campus. $150,000. H. B. Briggs, Ohio-Hartman Bldg., Columbus, archt. Noted Oct. 25.

Mich., Detroit — FACTORY — Lane, Davenport & Peterson, engrs. and archts., Charvlevoix Ave., taking bids and open same about Dec. 10, 1 story, 120 x 125 ft., rein.-con., brick, steel, Woodrow Wilson Ave., for Gorham Tool Co., 2206 12th St. Noted Nov. 22.

Mich., Detroit — TRUCK FACTORY — Dec. 13, by F. J. Winter, archt., 2112 Book Tower Bldg., 2 story, 60 x 400 ft., brick, steel addition, plain found., Federal Ave., for Federal Motor Truck Co., 5780 Federal Ave. $250,000. Noted Nov. 29.

Calif., Santa Clara — FACTORY — See "Contracts Awarded."

Ont., Cardinal—STARCH PLANT—See "Contracts Awarded."

Bids Received

O., Cleveland — INDUSTRIAL — State, c/o J. E. Harper, dir. P. Welfare, Columbus, Nov. 22, 1 story, 105 x 125 ft., rein.-con., brick, at State Hospital, from Dawson-Finan Co., 1552 East 26th St., $31,204. Noted Nov. 8.

Contracts Awarded

N. H., Walpole — PLANT — American Mineral Products Co. Inc., 1 story, 60 x 230 ft., brick, steel, feldspar grinding plant, Cold River, to Aberthaw Constr. Co., 80 Federal St., Boston, Mass. Est. $160,000.

Mass., Boston — FREIGHT HOUSE — New York, New Haven & Hartford R.R. Co., E. Gagel, ch. engr., New Haven, Conn., 1 story, 60 x 650 ft., brick, steel addition, plain found., to Long Constr. Co., Park Sq. Bldg. Noted Nov. 15.

Mass., Boston—SERVICE and REPAIR GARAGE, etc. — J. Staffieri, 358 Medford St., Charlestown, 1 story, concrete, steel, garage and boiler house, plain found., to F. Santini, 15 Bowdoin St., Arlington. Est. $45,000.

Mass., Pittsfield—ICE PLANT—Berkshire Sanitary Ice Co., J. Everwein, 153 Seymour St., 1 story, brick, Curtis St., to W. L. Goetz, 16 Kenwood St. Est. $50,000.

Mass., South Boston (sta. Boston) — MANUFACTURING and COLD STORAGE—Commonwealth Ice & Cold Storage Co., Fish Pier, 1 story, concrete, 220 Northern Ave., to W. T. Reed Co., 201 Devonshire St., Boston. Est. $50,000.

Mass., Woburn—BOILER HOUSE—See "Unclassified."

R. I., Providence—REPAIR SHOP—P. Buildings Dpt., City Hall, 1 and 2 story, 85 x 200 ft. repair shop, and 7 story, 20 x 20 ft. drill tower, brick, to Balchim Constr. Corp., 75 Westminster St., $54,472. Noted Nov. 22.

Conn., Bristol — FACTORY — Sessions Clock Co., East Main St., 2 story, brick, to W. Duffy, 95 Lincoln St. Est. $40,000 or more.

Conn., New Haven—BOILER PLANT—New Haven Pulp & Board Co., 265 East St., 1 story, 31 x 65 ft., brick, steel, concrete addition, East St., to H. Wales Lines Co., 134 State St., Meriden, $43,100.

Conn., New Haven—PLANT—Koppers Co., Waterfront St., 1 story, 55 x 148 ft., brick, steel, concrete high pressure pump building, to Koppers Constr. Co., Alabama Ave., $60,000. Noted Mar. 8.

Conn., Stamford—FACTORY—Richards Co., Inc., Ludlow St., 3 units, 1 and 3 story, brick, steel, Ludlow St., to J. W. Ferguson & Co., 152 Market St., Paterson, N. J. Est. $70,000.

N. Y., Brooklyn — BAKERY — Corporation, c/o L. Gottlieb, 10 Avenue O, bakery, to Prospect Constr. Corp., 10 Avenue O. Est. $40,000. Noted Nov. 15.

N. Y., Brooklyn—FACTORY—Bushwick Can Co., 86 Butler St., 1 story, brick, Henry and West 9th St., separate contracts. $40,000. W. A. Lacerenza, 26 Court St., archt. Noted Nov. 15.

N. Y., New York—MANUFACTURING—Farmers Loan & Trust Co., 22 William St., altering 5½ story office and residence into manufacturing and showroom, to L. M. Neckerman, 103 Park Ave. Est. $75,000. Noted Nov. 22.

N. Y., Thiells—SERVICE—Commissioner Mental Hygiene, Capitol, Albany, addition to service building at Letchworth Village to Bedford & Lyle, Thiells, $35,606. Noted Oct. 4.

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Buildings—Industrial (Continued)

N. J., Bloomsbury—FACTORY—Warren Mfg. Co., 1 story, brick, steel, to Austin Co., 16112 Euclid Ave., Cleveland, O. Est. $60,000.

N. J., Nutley (br. Newark)—CHEMICAL and DRUG PLANTS—Hoffman La Roche Co., 19 Cliff St., New York, general contract one 4 story, basement, 110 x 165 ft., and three 1 story, rein.-con., brick, steel, Kingsland Rd., to J. W. Ferguson Co., 152 Marke tSt., Paterson. Est. $150,000. Noted Nov. 22.

Pa., Coatesville — CARBONIZATION PLANT — International Combustion Eng. Corp., 200 Madison Ave., New York, 6 retort plant, day labor. To exceed $1,000,000. Private plans.

Pa., McKees Rocks — MILL — Pressed Steel Car Co., Farmers Bank Bldg., Pittsburgh, general contract 1 story, steel, corrugated iron mill, to Pittsburgh Bridge & Iron Wks., Bessemer Bldg., Pittsburgh. Est. $40,000.

Pa., Scranton—SILK MILL—L. V. Lacy, archt., 45 Owen St., Forty Fort, 2 story, basement, 62 x 274 ft., brick, steel, plain found., to Sardoni Constr. Co., Forty Fort, for B. E. David, Inc., 325 Alder St. Est. $75,000. Noted Nov. 8.

Pa., Volant—BRICK PLANT—Pearson Brick Co., New Castle, 1 and 4 story, brick, steel plant. $150,000. Owner builds. Private plans.

Pa., Wilkinsburg — MILL — U. S. Chromium Corp., Pittsburgh, 1 story, 72 x 100 ft., brick, steel, Wallace and Pitt Sts., to Lambert & Youngh, 1010 Center Ave. Est. $40,000. Noted Nov. 29.

W. Va., Parkersburg—MILL—Parkersburg Corrugated Box Co., general contract 1 story, 50 x 290 ft., brick, steel addition, to Plate Constr. Co., Parkersburg. Est. $100,000.

Fla., Jacksonville — FACTORY — Linde Air Products Co., 30 East 42nd St., New York, factory, to O. P. Woodcock, Lutz Bldg.; steel work to Aetna Iron & Steel Co., 2340 Market St. Noted Apr. 26.

Miss., Durant — COLD STORAGE PLANT — Lewis Grocery Co., M. Lewis, pres., 2 story, rein.-con., brick, to O. E. Lewis Co., Inc., 853 Carondelet St., New Orleans, La. Est. $50,000.

La., Baton Rouge—PACKING PLANT—Armour & Co., c/o W. H. Quine, mgr., 556 Front St., 2 story, 100 x 160 ft., brick, concrete Europe St., to J. Powers, c/o job. Est. $100,000.

Ky., Louisville — SHOE FACTORY — United States Shoe Co., Duttenhofer Bldg., Cincinnati, O., 2 story, 58 x 500 ft., rein.-con., 1700 West Lee St., to Ferro Concrete Constr. Co., 3rd and Elm Sts., Cincinnati, O. Est. $125,000.

O., Barberton — ICE PLANT — Henry Coal & Ice Co., A. R. Henry, pres., 1 story, 90 x 100 ft., brick, steel, to Bernard Constr. Co., 221½ 3rd Ave. Est. $100,000. Noted Nov. 22.

O., Canton — FACTORY—Timken Roller Bearing Co., Dueber Ave., 100 x 150 ft. assembling plant, and 100 x 320 ft. bindery, each 1 story, brick, steel, concrete, Harrison Ave. S. W., to Melbourne Constr. Co., 116 Brant Bldg., $45,000 and $50,000 respectively. Noted Oct. 25.

O., Euclid (br. Cleveland)—MILL and POWER PLANT—Chase Brass & Copper Co., C. E. Hart, Jr., secy., Waterbury, Conn., 1 story, 225 x 1,000 ft. mill, 1 story, 200 x 200 ft. power plant, rein.-con., brick, steel, to Austin Co., 16112 Euclid Ave., Cleveland. Est. $1,250,000.

O., Euclid (br. Cleveland)—FACTORY—Geometric Stamping Co., D. R. Jones, pres., 221 East 131st St., Cleveland, 1 story, 250 x 600 ft., brick, steel, Chardon Rd., to Austin Co., 16112 Euclid Ave., Cleveland. Est. $600,000.

O., Willoughby—ICE PLANT—City Ice & Fuel Co., E. C. Balzhizer, vice pres., 6611 Euclid Ave., Cleveland, 1 story, 100 x 100 ft., brick, steel, to Reaugh Constr. Co., Engineers Bank Bldg., Cleveland. Est. $90,000. Noted Nov. 22.

O., Wooster—LAUNDRY—Mann Bros., 1 story, 70 x 100 ft., brick, steel, to Austin Co., 16112 Euclid Ave., Cleveland. Est. $40,000. Noted Nov. 1.

Ind., East Chicago—FOUNDRY—Amer. Steel Fdry. Co., 410 North Michigan Ave., Chicago, Ill., general contract 1 story, 75 x 100 ft., rein.-con., brick, steel, to Sumner-Sollitt, 307 North Michgian Ave., Chicago, Ill. Est. $40,000.

Ind., Ft. Wayne—FACTORY—Aichele & Sons, 2319 West Main St., general contract 1 story, 50 x 85 ft., brick, steel, to Rump

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Kintz & Co., 210 Medical Arts Bldg. Est. $40,000.

Ind., Ft. Wayne—MACHINE SHOP—C. R. Wermuth & Sons, 1036 St. Marys St., general contract 1 story, 72 x 108 ft., Pontiac St., to Kanning & Sons, 1240 Stophlet St. Est. $40,000.

Ind., Ft. Wayne—PLANT—DeLuxe Tire Co., general contract 1 story, 60 x 140 ft., rein.-con., brick, steel, Clay and Wayne Sts., to W. S. Sams, 2239 New Haven St. Est. $42,000.

Ind., Ft. Wayne—PLANT—Texas Co., general contract rein.-con. Connett Ave., to Buesching-Hagerman Co., 402 East Superior St.; plumbing and heating, to P. B. Arnold, 213 East Main St. Est. $40,000.

Ind., Indianapolis—FACTORY—Schwitzer-Cummins Co., 1125 Massachusetts Ave., general contract 125 x 145 ft., rein.-con., brick, steel, to Robt. Berner Co., 401 South Harding St. Est. $40,000.

Ind., South Bend—PLANT—Standard Oil Co., general contract rein.-con., brick, steel, 600 South Scott St., to Hay-Weaver Co., 2410 South Main St. Est. $60,000.

Ind., South Bend—SERVICE—D. A. Boswell, 213 South Main St., general contract 1 story, 66 x 165 ft., rein.-con., brick, to H. G. Christman, 306 South Notre Dame St. Est. $40,000.

Mich., Detroit—FACTORY—Timken Detroit Axle Co., Clark St., 2 story, rein.-con., brick, steel addition, plain found., Clark St., to C. O. Barton Co., 1900 East Jefferson Ave. Est. $50,000.

Mich., Detroit—FACTORY—Ajax Bolt & Nut Co., 6623 Gratiot Ave., 2 story, brick, steel, concrete, plain found., to A. Lapeirre, 1058 Marland Ave. Est. $40,000. Noted Nov. 8.

Mich., Detroit — POWER PLANT — P. Lighting Com., East Atwater St., steam condenser and auxiliary equipment for 4th turbine in Morrell St. Power Plant, to Elliott Co., 1835 Dime Bank Bldg., $82,500.

Mich., Ionia — AUTO BODY PLANT — Hayes Ionia Co., 3 story, 60 x 112 ft., and 85 x 86 ft., also two 1 story, 30 x 200 ft. buildings, to Owen Ames Kimball Co., 38 Pearl St., Grand Rapids. Est. $180,000.

Mich., Port Huron—ICE PLANT—Continental Ice Co., 7744 Jeffery Ave., Chicago, Ill., 2 story, 80 x 340 ft., rein.-con., brick, steel, plain found., Grand Trunk R.R. and 24th St., to Blome & Sinke Co., 33 South Clark St., Chicago, Ill. Est. $200,000.

Mich., St. Joseph — PLANT — Robinson Marine Constr. Co., 227 West Main St., Benton Harbor, 1 story, 3 units, 50 x 60 ft., 50 x 100 ft., and 8 x 180 ft., brick, steel, plain found., to M. W. Stock Constr. Co., Broad St. Est. $60,000.

Ill., Rock Falls — FACTORY — Russell Burdsall, c/o Ward Nut & Bolt Co., Rock Falls, 1 story, brick, steel, to Austin Co., 16112 Euclid Ave., Cleveland, O. Est. $40,000.

Wis., Manitowoc — FACTORY—National Tinsel Mfg. Co., 16th and Hamilton Sts., general contract 3 story, 52 x 150 ft., brick addition, to E. R. Herman, 1402 Hamil-

Wis., Milwaukee — FOUNDRY—Milwaukee Foundry Equipment Co., 284 7th Ave., general contract 2 story, 70 x 129 ft., brick, steel, rein.-con., South Pierce St., to Ed. Steigerwald & Sons, Inc., 5310 State St.

Wis., West Allis — FACTORY — Allis-Chalmers Co., 200 x 600 ft. factory, 100 x 200 ft. foundry, 100 x 150 ft., heating plant, each 1 story, brick, concrete, steel, Greenfield Ave., to W. W. Oeflein, Inc., 110 East Wisconsin Ave., Milwaukee.

Kan., Wichita—POWER HOUSE—See "Railways under Missouri."

Mo., Luxemburg (St. Louis P. O.) — POWER HOUSE—Titanium Pigment Co., 1 Sidney St., St. Louis, 1 story, 70 x 80 ft., rein.-con., brick, River Des Peres and Missouri Pacific R.R. t racks, to Fruin-Nolnon Constr. Co., Merchants-Laclede Bldg., St. Louis. Est. $40,000.

Ark., Pine Bluff—AUTO BODY PLANT—Seaman-Dunning Corp., 1 story, 218 x 280 ft., rein.-con., brick, steel addition, to E. C. Royce, Pine Bluff.

Texas — REFINERY PLANTS — Texas Co., Pt. Arthur, 5,000 tons steel for refinery plants at Amarillo and San Antonio, and 1,500 tons fabricated (structural) steel for plant near Port Arthur, to Petroleum Iron Wks., Beaumont. Noted Nov. 1.

Calif., Oakland — DISTRIBUTING PLANT—Shell Oil Co. of California, 200 Bush St., San Francisco, 2 story, 50 x 240 ft., rein.-con., incl. garage, pump house, Alameda Estuary, to G. Wagner, Inc., 181 South Park, San Francisco, $200,000. Noted Nov. 22.

Calif., Oakland—FACTORY—Sunset-McKee Sales Book Co., 1 story, 160 x 200 ft., steel, brick, Livingston St., to Austin Co. of California, 1924 Bway. $60,000. Noted Nov. 1.

Calif., Sacramento—BAKERY—Western Baking Co., 5th and J Sts., 2 story, basement, 50 x 75 ft., rein.-con., plain found., 5th and J Sts., to Lindgren & Swinnerton, California Life Bldg., $40,000.

Calif., Santa Clara—FACTORY—Pacific Mfg. Co., 1 story, 385 x 488 ft., timber, day labor. $250,000.

Calif., San Francisco — PACKING PLANT—P. Grasso, 240 College Ave., 2 story, rein.-con., 4th and Bryant Sts., to S. A. Guisti, 200 Green St., $60,000.

Ont., Cardinal—STARCH PLANT—Canada Starch Co. Ltd., general contract 2 story, basement, 85 x 160 ft., rein.-con., brick, steel addition, plain found., day labor; structural steel, to Dominion Bridge Co., Lachine, Que. Est. $150,000.

Ont., Hamilton — FACTORY — Canadian Drawn Steel Co., 59 Gerrard St., H. J. Waddie, mgr., general contract 1 story, 60 x 90 ft., brick, steel addition, to Frid Constr. Co., 6 Hughson St. N. Est. $40,000.

Ont., Kitchener—FACTORY—Canadian Goodrich Co. factory addition, to Dunker Bros., 58 Louisa St. Est. $250,000. Noted Oct. 18.

Ont., St. Catharines—FACTORY—Grouts Ltd., 1 story, 50 x 218 ft., brick, steel addition, Welland Ave., to Wilde & Bryden, 1006 Canadian Pacific Ry. Bldg., Toronto; steel, to Standard Steel Constr. Co., Welland. Est. $45,000.

Ont., Windsor — FACTORY — Chrysler Corp. of Canada, J. D. Mansfield, mgr., 300 Tecumseh Rd., Unit 1, to Walbridge Aldinger Co., 2312 Penobscot Bldg., Detroit, Mich.; steel, to Canadian Bridge Co., Walkerville. Noted Nov. 8.

Buildings—Commercial

Proposed Work

Me., Portland — CLUB — Portland Boys Club, E. W. Hannaford,, 579 Congress St., plans by J. C. and J. H. Stevens, 477 Congress St., 2 story, basement, 110 x 170 ft., brick, plain found. $200,000.

N. H., Claremont—STORE and OFFICE—Claremont Furniture Co., M. Nassau, mgr., 65 Pleasant St., store and office building, Middle and Pine Sts. To exceed $150,000. Engineer and architect not selected.

N. H., Manchester—THEATRE—Strand Theatre, c/o G. N. Jacobs, archt., 9 Bosworth St., Boston, Mass., altering 1 story, basement, brick, steel, plain found., Hanover St. $150,000.

Mass., Brookline (br. Boston)—APARTMENT—Gay & Proctor, archts., 248 Boylston St., Boston, taking preliminary estimates 4 story, basement, brick, plain found., Leicester St., for M. Longyear, 60 Leicester St. $150,000.

Mass., Marblehead — HOTEL — Hotel Rockmere, R. O. Backett, 40 Gregory St., altering and constructing 1 and 4 story, basement, brick, stucco, plain found., incl. grading and landscape work. $160,000. E. M. Bridge, 284 Boylsotn St., Boston, archt.

Mass., Northampton — APARTMENT — G. M. Burns, 31 Elm St., Springfield, sketches by H. J. Tessier, 1132 Main St., Springfield, 4 story, basement, brick, plain found., North St. $150,000.

Mass., Northampton—WARD—Coolidge-Dickinson Hospital bids after Dec. 1, 3 story, basement, brick, maternity ward building, plain found. $150,000. K. S. Putnam, 78 Main St., archt. Noted Nov. 15.

Mass., Plymouth—STORE and OFFICE—M. Sadow, 33 Egmont St., Brookline, brick store and office, Court St. near Russell St. $150,000. Engineer and architect not selected.

R. I., Providence—STORES, APARTMENT and GARAGES—M. J. Kechijan, c/o H. B. Summer, archt., 352 Adelaide Ave., 1, 2 and 3 story, basement, irregular sized, brick, concrete, plain founds. $150,000.

Conn., Greenwich — HOSPITAL — St. Lukes Hospital, A. Clover, supt., 113th St. and Amsterdam Ave., New York, convalescent hospital, Byram Woods, near here. $500,000.

N. Y., Brooklyn—APARTMENT—Allen Realty Corp., R. R. Danzilo, pres., 50 Court St., plans by S. L. Malkind, 93 Court St., 6 stroy, 100 x 100 ft., brick, timber, Ocean Ave. and Avenue X. $200,000.

N. Y., Brooklyn — APARTMENT — C. Cascio & Co., 2106 77th St., plans by J. Lubroth, 44 Court St., 4 story, 90 x 100 ft., brick, timber, 75th St. $150,000.

Buildings—Commercial (Continued)

N. Y., Brooklyn — APARTMENT — Corporation, c/o M. Goldberg, 16 Court St., plans by Ricca & Ungarleider, 186 Remsen St., 6 story, 87 x 120 ft., brick, timber, 51st St. and East 14th Ave. $200,000.

N. Y., Brooklyn — APARTMENT — S. Funt, 1515 West 1st St., plans by M. Rothstein, 186 Joralemon St., 4 story, 88 x 120 ft., brick, timber, West 11th St. and Avenue O. $150,000.

N. Y., Brooklyn—APARTMENT—Garfield Park Corp., A. W. Barler, pres., 162 Remsen St., plans by E. Roth, 1440 Bway., New York, 15 story, 100 x 165 ft., brick, Garfield Pl. $1,000,000.

N. Y., Brooklyn—APARTMENT—Hudson View Gardens, Inc., E. H. Patrick, pres., West 183rd St. and Pinehurst Ave., New York, plans by Boak & Paris, 11 West 42nd St., New York, 15 story, 80 x 100 ft., brick, timber, Prospect Park and President St. $600,000.

N. Y., Brooklyn—APARTMENT—Leuzzi Holding Corp., 659 Bay Ridge Ave., plans by A. J. Semberg, 1133 Bway., New York, 5 story, 85 x 113 ft., brick, timber, Bay Ridge and West 7th Aves. $165,000.

N. Y., Brooklyn — APARTMENT — C. Resnikoff, 6820 19th Ave., plans by S. C. Rice, 316 West 56th St., New York, 4 story, 64 x 94 ft., brick, timber, Colonial Rd. and Bay Ridge Ave. $150,000.

N. Y., Brooklyn—APARTMENT—Samfied Holding Corp., A. Fishland, pres., 1350 Ocean Parkway, plans by S. L. Nalkind, 93 Court St., 6 story, 90 x 100 ft., brick, timber, Avenue N and East 5th St. $200,000.

N. Y., Brooklyn — APARTMENT — J. Siegel, 285 Buffalo Ave., plans by E. M. Adelsohn, 26 Court St., 6 story, 87 x 95 ft., brick, timber, Ridgewood Ave. and Logan St. $230,000.

N. Y., Brooklyn—APARTMENT—Weiss Bros., 350 Stone Ave., plans by Cohn Bros., 361 Stone Ave., 6 story, 100 x 107 ft., brick, timber, Ocean Parkway and Avenue C. $215,000.

N. Y., Brooklyn — BANK — Brooklyn Trust Co., 177 Montague St., Park Slope Branch Bank, 7th Ave. and Carroll St. $150,000. Engineer and architect not selected.

N. Y., Flushing — APARTMENT — J. Kohneisio, 22 Bella Pl., Maspeth, plans by McManus & Griffith, 11 East 42nd St., New York, 4 story, 93 x 104 ft., brick, timber, 42nd Ave. and 201st St. $200,000.

N. Y., Long Beach—APARTMENT—I. Wolff, 14 East Market St., plans by Sugarman & Berger, 345 Madison Ave., New York, 6 story, brick, timber, National Blvd. $150,000.

N. Y., Long Island City—APARTMENTS—V. Coronoto, 31-13 21st St., plans by V. Schiller, 30-64 41st., Astoria, two 4 story one 50 x 88 ft., $60,000, other 75 x 90 ft., $90,000, brick, timber, 29th St. and 21st Ave.

N. Y., Long Island City—APARTMENT—Sixty-One Sanford Avenue Corp., 103 Park Ave., New York, plans by W. A. Creamer, Bible House, New York, 6 story, 90 x 120 ft., brick, timber, Sanford Ave. and Frame St. $210,000.

N. Y., New York—APARTMENT—Ciluzzi Realty Corp., R. Ciluzzi, pres., 200 West 72nd St., plans by G. F. Pelhan, 570 7th Ave., 6 story, brick, timber, 220 Northern Ave. $250,000.

N. Y., New York—APARTMENT—Corporation, c/o H. Lebow, 1 Audubon Ave., plans by G. G. Miller, 1482 Bway., 5 story, 80 x 100 ft., brick, timber, 168th St. and Audubon Ave. $225,000.

N. Y., New York—APARTMENT—One Hundred Five East 65th St. Corp., R. C. Brown, pres., 149 Bway., plans by J. E. R. Carpenter, 598 Madison Ave., 13 story, 79 x 120 ft., brick, steel, 623 Park Ave. $900,000.

N. Y., New York — APARTMENT — Thirty-One MacDougal Street Corp., N. J. Rosenberg, pres., 11 East 44th St., plans by J. B. Peterkin, 285 Madison Ave., 6 story, 35 x 75 ft., b rick, timber, 31 MacDougal St. $150,000.

N. Y., New York—APARTMENT—Three Hundred Twenty-Seven Central Park Corp., A. Preiffer, pres., 55 West 42nd St., plans by N. Karn, 55 West 42nd St., 16 story, 75 x 150 ft., brick, steel, 327 Central Park West. $700,000.

N. Y., New York—HOTEL—New York City Baptist Mission Society, E. L. Ballard, pres., 276 5th Ave., plans by E. Roth, 1440 Bway., 14 story, 100 x 105 ft., brick, steel, 168 2nd Ave. $1,100,000.

N. Y., New York—SERVICE GARAGE—Laura Realty Corp., Inc., S. Snow, pres., 200 West 72nd St., plans by W. C. Sommerfeld, 31 Union Sq., 5 story, 75 x 194 ft., brick, concrete, 524 East 73rd St. $150,000.

N. Y., New York—STORE and APARTMENT—American Realty Co., M. Davidson, treas., 160 Bway., plans by Starrett & Van Vleck, 393 7th Ave., 6 story, 89 x 92 ft., brick, steel, 1271 Bway. $200,000.

N. Y., Oneonta—BANK—Wilbur Natl. Bank, c/o E. Crippen, vice pres., Main St., sketches by Halsey, McCormick & Helmer, 286 5th Ave., New York, brick, steel, stone, Main St. $150,000.

N. Y., Richmond Hill (Ind. br. Jamaica) —APARTMENT—L. Shaffer, 26 Court St., Brooklyn, plans by Seelig & Finkeltsein, 66 Court St., Brooklyn, brick, timber, 88th Ave. and 92nd St. $350,000.

N. Y., Rochester—HOTEL—J. Jorastow, 176 Meig St., plans by Philips & Scrantom, Inc., 311 Alexander St., 8 story, basement, 110 x 150 ft., brick, tile, steel, plain found., Cumberland St. $1,000,000. Noted July 12.

N. J., Dunellen—THEATRE—Owner, c/o C. C. Bell, archt., 19 Union Ave., Cranford, sketches 2 story, basement, brick, steel, plain found. $150,000.

N. J., East Orange—APARTMENT—I. Rekoon, c/o M. Fischer, archt., 564 Main St., 4 story, basement, brick, steel, plain found., North Parkway and 4th Ave. $200,000. Noted Nov. 22.

N. J., Elizabeth — APARTMENT — E. Glueck, 81 Elmora Ave., sketches by W. L. Finne, 91 Broad St., 3 story, basement, brick, steel, 81-3 Elmira Ave. $150,000.

N. J., Englewood — APARTMENT — J. Sommers, Grand Ave., 4 story, brick, Grand and Chester Aves. $150,000. Engineer and architect not selected.

N. J., Englewood — STORE, APARTMENT and OFFICE—M. Pasternack, c/o Berthwhistle & Livingston, 5 Dean St., 3 story, basement, brick, steel, plain found., on 163 x 242 ft. site, Grand Ave. $150,000. Engineer and architect not selected.

N. J., Highland Park (br. New Brunswick)—APARTMENT—H. Soloman, c/o H. G. Bach, archt., 63 Schurman St., New Brunswick, 3 story, basement, 50 x 100 ft., brick, steel, plain found., Abbott St. $150,000. Noted Nov. 15.

N. J., Irvington (br. Newark)—APARTMENT—R. Krasny, 52 Hedden Terrace, 4 story, basement, 85 x 100 ft., brick, steel, plain found., 97-103 Ball St. $155,000. Kasoff & Flatt, 164 Market St., Newark, archt. Noted Nov. 22.

N. J., Jersey City—APARTMENT—A. A. Bernstein, 591 Park Ave., West New York, plans by G. B. McIntyre, 608 Park Ave., West New York, 4 story, basement, 50 x 100 ft., brick, plain found., 1200 Summit Ave. $150,000.

N. J., Jersey City — APARTMENT — Gorlin Constr. Co., Tube Concourse Bldg., 7 story, basement, brick, steel, plain found., Fulton and Sterling Aves. $150,000. Private plans. Noted Nov. 22.

N. J., Jersey City — APARTMENT — S. and S. Building Co., C. Shultze, 2 Boyd Ave., plans by E. M. Patterson, 76 Montgomery St., 4 story, basement, 50 x 100 ft., brick, steel, plain found., Clinton St. $150,000.

N. J., Jersey City — GARAGE — J. F. Boyle, 106 Glenwood Ave., 5 story, basement, brick, steel, plain found., Romaine and Sip Aves. $250,000. Private plans.

N. J., Long Branch — CONVENTION HALL—City Comrs., City Hall, 344 Bway., plans by Seymour & Baumn, 191 Bway., and L. Cubberly, 210 Bway., associated archts., 2 story, basement, brick, steel convention hall, casino and bathing pavilion, Laird St. and Madison Ave. $700,000. Noted Nov. 1.

N. J., Newark—APARTMENT—Eldora Apartment, Inc., c/o M. O. Klemmt, archt., 43 Hill St., 5 story, basement, 55 x 100 ft., brick, steel, plain found., 62-4 Mt. Pleasant Ave. $150,000.

N. J., Newark—APARTMENT—I. Katzman, 333 Lyons Ave., sketches by J. Centanni, 142 Market St., 3 story, basement, 70 x 100 ft., brick, steel, plain found., Sibley St. and Lyons Ave. $150,000.

N. J., Newark—APARTMENT—A. Weinberg, 20 Sharon Ave., Irvington, plans by E. Hauser, 11 Clinton St., 4 story, basement, brick, steel, plain found., 142 West Kinney St. $150,000. Noted Nov. 22.

N. J., Newark — HOSPITAL — Newark Memorial Hospital, W. F. Hoffmann, treas., 340 Bank St., sketches by Guilbert & Betelle, 20 Branford Pl., 10 story, basement, brick, steel, plain found., Newton St. $1,250,000.

N. J., Newark—STORAGE and LOADING SHED—Hoffman Beverage Co., 406 Grove St., Jersey City, sketches by E. C. Epple, 44 Commerce St., 6 story, basement, 125 x 200 ft., brick, steel, plain found., 9-13 21st St. $300,000.

N. J., North Arlington (mail Arlington) —APARTMENT—Jersey Capitol, Inc., c/o P. Singer, archt., 60 Park Pl., Newark, 3 story, basement, brick, steel, plain found., Belleville Turnpike and Prospect St. $150,000. P. Singer, 60 Park Pl., Newark, archt. Noted Nov. 22.

N. J., North Arlington (mail Arlington) —APARTMENT—J. Leff, 9 Potter Pl., Newark, plans by J. Centanni, 142 Market St., Newark, 3 story, basement, brick, steel, plain found., Prospect Ave. and Bond Pl. $150,000.

N. J., Paramus (mail Ridgewood) — HOSPITAL — Bd. Freeholders Bergen Co., Court House, Hackensack, hospital, childrens pavilion, employees building, garage. $500,000. Engineer and architect not selected.

N. J., Paterson—APARTMENT—E. H. Ellis, 444 Ellison St., 5 story, basement, brick, steel, plain found., 227 East 30th St. $160,000. Private plans.

N. J., Red Bank—AUTO SHOW ROOM—W. A. Rullman, 58 West Front St., 3 story, basement, brick, steel, plain found., Monmouth St. and Maple Ave. $150,000. Engineer and architect not selected.

N. J., Teaneck (br. Hackensack) — APARTMENT — Acme Eng. Corp., c/o C. I. Goldberg, archt., 437 Bway., Bayonne, 4 story, basement, brick, steel, plain found., Linden Ave. and Short St. $150,000. Noted Nov. 22.

N. J., Union City—BANK and OFFICE—North Hudson Natl. Bank, c/o F. Hensel, 254 Summit Ave., Union City, and W. Neuman, 40 Journal Sq., Jersey City, asso. archts., revised plans 2 story, basement, 50 x 100 ft., brick, steel, plain found., 15th St. and Summit Ave. $175,000. Former bids rejected. Noted Nov. 8.

N. J., West New York — APARTMENT and STORE — M. Goldberg, 128 Parkview Ave., 5 story, basement, 75 x 100 ft., brick, steel, plain found., 456 Park Ave. $150,000. Noted Oct. 18.

Pa., Erie—STORE—Erie Dry Goods Co., soon lets contract 6 story, basement, 100 x 250 ft., rein.-con., brick department store. $750,000. Shutts & Morrison, Marine Bank Bldg., archts.

Pa., Jenkintown — THEATRE, BANK, STORE — E. T. Quinn plans by Thalheimer & Waltz, 10 South 18th St., Phila., brick, steel, plain found., York Rd. and Hillside Ave.

Pa., Phila. — WAREHOUSE — L. B. Rothschild, archt., 215 South Broad St., soon lets contract 2 story, basement, 95 x 520 ft., rein.-con., brick, plain found., 6th and Glenwood Sts., for J. C. Kahn, 17th and Chestnut Sts. Stern & Co., 112 Market St., lessee. Noted July 26.

Pa., Pittsburgh — APARTMENT—Webster Hall Corp. of America, Webster Hall, Mich., plans by C. N. Agree, 1140 Book Tower, Detroit, Mich., 8 story, basement, 75 x 165 ft., rein.-con., brick, steel, plain found., Gitrige St. $300,000.

Pa., Polk — HOSPITAL — Polk State Training School for Feeble Minded, c/o H. M. Watkins, plans by L. Stevens, Century Bldg., Pittsburgh, 2 story, basement, brick, steel addition. $200,000.

Va., Petersburg — THEATRE — C. A. Somma, 528 North 2nd St., and W. J. Coulter, 2820 West Grace St., Richmond, theatre, Franklin and Adams St. $300,000. Engineer and architect not selected.

Fla., Bartow — COURT HOUSE — Polk Co. Bd. Pub. Impvts., A. B. Connor, supt., plans by E. R. James, 590 Floral Ave., 2 story, 180 x 200 ft., brick court house. $150,000. W. F. Cornell, Lakeland, engr.

La., Shreveport—STORE—Booth Furniture Co., 610 Texas St., plans by Jones, Roessle, Olschner & Weiner, Ardis Bldg., 4 or 5 story, brick, rein.-con., Texas St. $400,000.

O., Cleveland — ADMINISTRATION — City, W. R. Hopkins, city mgr., plans by H. Kregelius, City Hall, 1 and 2 story, brick, steel, incl. radio control room, weather bureau, offices, concrete grandstand, concrete roads, sewers and drain lines, at Cleveland Airport. $400,000.

O., Cleveland — APARTMENT — H. Abrams, 14150 Superior Rd., plans by M. Weis, 1836 Euclid Ave., 4 story, basement, brick, 1867 East 93rd St. $250,000.

Ind., Evansville—OFFICE—Indiana Bell Telephone Co., 256 North Meridian St., Indianapolis, sketches by Vonnegut-Bohn-Mueller, 610 Indiana Trust Co., Indianapolis, 4 story, basement, 88 x 148 ft., brick, steel, 5th and Vine Sts. $250,000.

Mich., Alma—MASONIC HOME—Grand Lodge F. and A. M., F. Homer, grand

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Buildings—Commercial (Continued)

master, Newton, 173 State Ave., Pontiac, 3 story, rein.-con., brick, steel, stone, plain found. $500,000. Engineer and architect not selected.

Mich., Detroit—HOSPITAL—University of Detroit, J. P. McNichols, pres., Livernois and Six Mile Rd., 3 story, basement, rein.-con., brick, steel, plain found., Dexter Ave. $300,000. Engineer and architect not selected.

Mich., Detroit — LODGE TEMPLE — Detroit Lodge 34, Elks, Lafayette and Cass Aves., brick, concrete, stone, steel, plain found., Jefferson Ave. To exceed $500,000. Engineer and architect not selected.

Mich., Jackson—THEATRE and OFFICE—W. S. Butterfield, 505 Insurance Exchange Bldg., Chicago, Ill., plans by J. Eberson, 212 Superior St., Chicago, Ill., 2 story, basement, 145 x 170 ft., rein.-con., brick, steel, stone, plain found., Michigan Ave. $500,000.

Ill., Chicago—GROCERY WAREHOUSE—A. S. Alschuler, archt., 28 East Jackson Blvd., soon takes bids superstructure 6 story, basement, 100 x 125 ft., rein.-con., Illinois and Orleans Sts., for John Sexton Co., 352 West Illinois St. Noted Sept. 13.

Minn., Minneapolis — FRATERNAL, AUDITORIUM and HOTEL—Minneapolis Columbus Assn., E. J. Loring, chn. building com., 428 South 8th St., plans by Bertrand & Chamberlin, 616 Northwestern Bank Bldg., 10 story, basement, 100 x 155 ft., rein.-con., brick, steel, stone, 5th Ave. S. and 8th St. $750,000.

Kan., Hutchinson—HOTEL—E. Colson, 17 East 17th St., plans by Mann & Co., 722 Rorabaugh Wiley Bldg., 6 story, basement, 49 x 118 ft. hotel. $250,000.

Kan., Norton—COURT HOUSE—Norton Co. soon takes bids 4 story, basement, 80 x 100 ft., rein.-con., brick, Bedford stone. $200,000. Cuthbert & Suehrk, 735 Kansas Ave., Topeka, archts. Noted Nov. 1.

Kan., Topeka — APARTMENT — C. L. Smalley, 1303 Pembroke Lane, apartment, 10th and Topeka Sts. $500,000. Engineer and architect not selected.

Kan., Wichita—OFFICE—Medical Arts Building Co., c/o J. H. Engstrom, pres., 117 North Handley St., sketches by A. Boyer, Arcade Bldg., St. Louis, Mo., 16 story, basement, 77 x 90 ft., rein.-con., brick, stone, steel, Douglas and Webb Aves. $500,000.

Neb., Omaha—APARTMENT HOTEL—Metcalf Co., 203 South 19th St., bids in spring 10 story roof garden, 56th and Military Sts. $400,000. Private plans.

S. D., Yankton—HOTEL—A. Beck, 401 Keeline Bldg., Omaha, Neb., plans by H. Lawrie, 618 Paxton Bldg., and W. E. Stockham, 423 Sunderland Blk., both Omaha, Neb., 134-room hotel. To exceed $150,000.

Mo., Chillicothe — HOSPITAL—Livingston Co. defeated $200,000, hospital. Noted Aug. 30.

Mo., St. Joseph—APARTMENT HOTEL—Syndciate forming, c/o Kirkpatrick Bldg., sketches by W. Boschen, Tootle Lacy Bank Bldg., 9 story, basement, rein.-con., brick, stone, 12th and Francis Sts. $500,000.

Mo., St. Joseph — HOTEL — Edmond Realty Corp., c/o J. Goldman & Associates, Amer. Natl. Bank Bldg., sketches by W. Boschen, Tootle Lacey Bldg., 14 story, basement, 120 x 130 ft., rein.-con., brick, stone, terra cotta hotel. $800,000.

Mo., St. Louis—HOSPITAL—City, c/o Bd. of P. Serv., bids early in 1929, 6 story, basement, rein.-con., brick, stone hospital for negroes, Park and St. Ange Sts. $1,200,000. L. R. Bowen & H. Updike, engrs., L. R. Bowen & A. Osoburg, archts., 301 City Hall.

Mo., St. Louis—OFFICE—J. M. Robertson, Boatmens Bank Bldg., plans by Eames & Young, Arcade Bldg., 40 story, basement, 114 x 125 ft., rein.-con., brick, steel, stone, terra cotta, 4th and Olive Sts. $3,500,000.

Mo., St. Louis — STORE, OFFICE and APARTMENT—S. Hamburg & Associates, Arcade Bldg., soon take bids 4 story, basement, 100 x 148 ft., rein.-con., brick, terra cotta, Delmar Blvd. and DeBaliviere Ave. $300,000. Bowling & Shank, 1198 Arcade Bldg., archts. Noted Aug. 9.

Okla., Oklahoma City—OFFICE—W. T. Hales, 1st Natl. Bank Bldg., sketches 12 story, basement, 50 x 140 ft., rein.-con., brick addition, Main St. $150,000. Engineer and architect not selected.

Okla., Oklahoma City—OFFICE—Grain Exchange Building Co., Grain Exch. Bldg., plans by Hawk & Parr, Cotton Exch. Bldg., 4 story, 100 x 140 ft., brick top addition, Grand Ave. $150,000.

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Okla., Tulsa—EXCHANGE and OFFICE—Southwestern Bell Telephone Co., 11th and Pine Sts., St. Louis, Mo., plans by I. R. Timlin, 1916 Southwestern Bell Bldg., 4 story, 75 x 140 ft., rein.-con., brick top addition.

Colorado, Kansas and Nebraska—WAREHOUSES—J. Frost, Inc., c/o P. A. Cessna, pres., 305 West 2nd St., Pueblo, Colo., 20 brick, steel, concrete warehouses for handling coal, grain and feed. Engineer and architect not selected.

Colo., Ouray — SANITARIUM — C. W. Kent, 2301 North Adams St., Peoria, Ill., purchased site and present buildings of Cogar Sanitarium, and plans expending $175,000 during 1929, new buildings. Engineer and architect not selected.

Calif., Long Beach — AUDITORIUM — City plans by J. H. MacDowell, 51 East 42nd St., New York, and W. H. Austin, resident archt., Pacific Southwest Bank Bldg., Long Beach, Class "A" municipal auditorium, incl. assembly hall, 5,500 seating capacity, theatre 2,500 seating capacity, and basement for industrial exhibits. $1,000,000. Noted Oct. 25.

Calif., Los Angeles — APARTMENT — Owner, c/o A. W. Larsen & H. H. Clayton, 3839 Wilshire Blvd., sketches 8 story, 60 x 130 ft., tile, timber, rein.-con., Kenmore Ave. between 6th St. and Wilshire Blvd. $325,000.

Calif., San Francisco—APARTMENTS—See "Contracts Awarded."

Calif., San Francisco — HOTEL — See "Contracts Awarded."

Calif., San Francisco—OPERA HOUSE—City and San Francisco Co., San Francisco War Memorial Committee, 140 Montgomery St., soon takes bids Class "A" 4,000 seating capacity, 500 standing room opera house Van Ness Ave. $1,500,000. Noted July 5.

Que., Quebec City — WAREHOUSE — Canada Cement Co. Ltd., Phillips Sq., Montreal, concrete warehouse, St. Andrew St. $1,000,000.

Ont., Kingston—HOSPITAL—Governors of Hotel Dieu Hospital, new wing, concrete, brick, steel, Brock St. $150,000.

B. C., Vancouver—OFFICE and STORE—G. A. Stimson & Co. Ltd. plans by McCarter & Nairne, Northwest Bldg., 10 story, 2 basement, 100 x 187 ft., Burrard and Hastings Sts. $350,000.

Alta., Edmonton — STORE — T. Eaton Ltd., 2050 Bleury St., Montreal, Que., one unit $250,000. Total $1,500,000.

Bids Asked

Me., Portland—HOSPITAL—Maine General Hospital taking bids 3 story, basement, irregular sized, brick addition, plain found. $200,000. Coolidge, Shepley, Bulfinch & Abbott, Ames Bldg., Boston, Mass., archts. Noted Oct. 4.

Me., Portland—STORE and OFFICE—C. M. Winston & Bros., archts., 22 Columbus Circle, New York, taking bids separate contracts store and office building, 551 Congress St., for Lerner Stores Corp., 354 4th Ave., New York. Noted Nov. 8.

Mass., Brighton (sta. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Brookline (br. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Cambridge (br. Boston)—WAREHOUSE — Beacon Warehousing Trust, A. Geiger, 79 Milk St., Boston, taking bids 3 story, 110 x 150 ft., brick, plain found., Commercial St. $150,000. W. Dykeman, 10 Devonshire St., Boston, archt. Noted Nov. 8.

Mass., Gardner—MERCANTILE—Gardner Realty Co., B. L. Cohen, Parker St., taking bids 2 and 3 story, basement, irregular sized, brick, stone, plain found., 31-39 Parker St. $150,000. Haynes & Mason, 280 Main St., Fitchburg, archts.

Mass., Mattapan (sta. Boston)—APARTMENT—See "Contracts Awarded."

Mass., Roxbury (sta. Boston)—APARTMENT—See "Contracts Awarded."

Conn., Hartford — THEATRE, STORE and OFFICE — Community Theatre Corp., J. Glassman, 170 Adams St., taking bids 3 story, basement, 125 x 140 ft., brick, steel, plain found., Albany Ave. $200,000. G. H. Matthews, 48 Campfield St., archt. Noted Sept. 20.

Conn., Waterbury—BUSINESS—Dec. 7, by Russell Estate, c/o J. Russell, 77 Bank St., 4 story (ultimately 9 story), 55 x 80 ft., brick, steel, limestone, plain found., Bank St. $155,000. F. A. Webster, 51 West Main St., archt.

N. Y., Brooklyn — APARTMENT — See "Contracts Awarded."

N. Y., Brooklyn—BANK—Dec. 10, by Halsey, McCormick & Helmer, archts., 285 5th Ave., New York, 2 story, brick, steel, 86th St. and 10th Ave., for Dime Savings Bank of Brooklyn, 9 DeKalb Ave. $300,000. Noted Mar. 8.

N. Y., Brooklyn—STORE and APARTMENT—See "Contracts Awarded."

N. Y., Hollis (br. Jamaica)—APARTMENT—See "Contracts Awarded."

N. Y., New York—APARTMENT—See "Contracts Awarded."

N. Y., New York—Y. M. C. A., 420 Lexington Ave., bids about Dec. 15, 14 story, 125 x 260 ft., brick, steel, 11 West 63rd St. $1,500,000. D. J. Baum, Spuyten Duyvil Parkway and Waldo Ave., archt. Noted Oct. 25.

N. Y., Rochester—APARTMENT—B. D. Josephs, archt., 620 East Main St. taking bids on separate contracts 4 story, basement, 45 x 140 ft., brick, steel, plain found., South Goodman St., for T. H. Eddy, 463 Seneca Parkway. $175,000.

N. J., Atlantic City—APARTMENT—J. Decker, archt., 14 Northfield Ave., West Orange, taking bids general contract 10 story, basement, 58 x 114 ft., brick, steel, plain found., Atlantic Ave. and Chelsea St., for E. Sieade, c/o architect. $300,000.

N. J., Belleville (br. Newark)—APARTMENT—See "Contracts Awarded."

N. J., Belleville (br. Newark)—HOSPITAL—Bd. Freeholders Essex Co., Hall of Records, Market St. and Springfield Ave., Newark, bids about Jan. 15 on revised plans 8 story, basement, rein.-con., brick, steel hospital, plain found., 5 story, basement, nurses home and 2 story service building, County Isolation Grounds. $1,000,000. Sutton, Sutton & Calkins, 402 Broad St., Newark, archts. Runyon & Carey, 31 Fulton St., Newark, consult. engrs. Noted Nov. 8.

N. J., Elizabeth — WAREHOUSE and STORAGE—G. F. Bial, archt., 145 Summit Ave., Union City, bids about Jan. 15, general contract 5 story, basement, 240 x 260 ft., rein.-con., brick, plain found., 651-71 South Front St., for Bayway Terminal Co., South Front St. Est. $200,000. Noted Oct. 18.

N. J., Highland Park (br. New Brunswick) — APARTMENT — M. Spitzer, 382 George St., New Brunswick, taking bids 3 story, basement, brick, plain found. $150,000. H. G. Bach, 63 Schureman St., New Brunswick, archt.

N. J., Highland Park (br. New Brunswick) — APARTMENT — See "Contracts Awarded."

N. J., Jersey City—APARTMENT—See "Contracts Awarded."

N. J., Morristown — HOTEL — Locan Realty Co. taking bids general contract 5 story, basement, brick, steel, plain found. $150,000. W. E. Lehman, 972 Broad St., Newark, archt.

N. J., Newark — GARAGE — See "Contracts Awarded."

N. J., Newark — STORAGE and LOADING SHED—E. C. Epple, archt., 44 Commerce St., Newark, taking bids 6 story, basement, 125 x 200 ft., brick, steel, rein.-con., plain found., 9-13 21st St., for Hoffman Beverage Co., 406 Grove St. Est. $300,000.

N. J., North Arlington (mail Arlington)—APARTMENT—See "Contracts Awarded."

N. J., Orange—BANK and STORE—E. H. Fougner, archt., 197 Market St., Newark, bids about Dec. 15, 1 story, basement, 65 x 120 ft., brick, steel, plain found., Centre St. and Central Ave., for Orange Natl. Bank, 282 Main St. $150,000. Noted Nov. 8.

N. J., Paterson — APARTMENT — See "Contracts Awarded."

N. J., Paterson — F. W. Wentworth, archt., 140 Market St., bids about Jan. 15, general contract 3 story, basement, 115 x 140 ft., rein.-con., brick, steel, plain found., Ward and Prince Sts., for Y. M. C. A. R. Y. Walsh, genl. secy., 141 Ellison St. Est. $750,000. Noted Nov. 29.

Pa., Phila.—APARTMENT—R. G. Pratt, archt., 1420 Walnut St., taking sub-bids 3 story, basement, 110 x 149 ft., brick, steel, plain found., Front and Lemon Sts. $300,000.

Fla., Stuart—COURT HOUSE and JAIL—Dec. 10 (extended date), by W. B. Tilton, chn. Bd. Comrs. Martin Co., 3 story, 62 x 100 ft., rein.-con. $150,000. Noted Nov. 22.

O., Gallipolis—COTTAGE—Dec. 22, by J. E. Harper, dir. Dpt. Welfare, 9th and Oak Sts., Columbus, 2 story, basement, 75 x 104 ft., brick, concrete, Institution for Epileptics. $150,000. H. B. Briggs, Ohio-Hartman Bldg., Columbus, archt.

Buildings—Commercial (Continued)

O., Toledo — STORE — Dec. 11, by H. Holmes, archt., c/o S. S. Kresge Co., Kresge Bldg., Detroit, Mich., general contract 3 story, basement, 60 x 115 ft., rein.-con., brick, steel, plain found. $150,000.

Ind., Indianapolis—OFFICE—University Park Co. taking bids, rein.-con. Architects and Engineers Building, 11 story, basement, 50 x 195 ft., Pennsylvania and Vermont Sts. $200,000. Rubush & Hunter, 430 Amer. Cent. Life Bldg., archts.

Minn., Aitkin—COURT HOUSE—Dec. 19, by Aitkin Co., H. C. Beecher, aud., 3 story, basement, rein.-con., brick, Bedford stone court house. $150,000. Toltz, King & Day, Builders Exch., St. Paul, archts. Noted Nov. 8.

Minn., Minneapolis—ADMINISTRATION—Dec. 20, by Lakewood Cemetery Assn., A. C. Nuessle, secy., 3600 Hennepin Ave., 1 story, basement, 68 x 135 ft., rein.-con., brick, cut stone, Lakewood Cemetery, 3600 Hennepin Ave. $150,000. E. Kennedy, 517 Essex Bldg., archt.

Mo., Kansas City—HOSPITAL—Jackson Co. (Independence) bids about Dec. 20, 4 story, basement, rein.-con., stone. $500,000. F. C. Gunn, 1608 Continental Bldg., archt.

Tex., Georgetown—HOTEL—See "Contracts Awarded."

Calif., Los Angeles—OFFICE and SHOW ROOM—Kittinger Co., 1893 Elmwood Dr., Buffalo, N. Y., taking bids 2 story, 87 x 232 ft., steel, brick, rein.-con., Goodrich Blvd. and Union Pacific Ave. $150,000. Private plans. Noted Aug. 2.

D. C., Wash.—HOTEL and CLUB—Cafritz Constr. Co., 1016 14th St. N.W., taking bids sub-contracts hotel and club, 14th and K Sts., N.W. H. H. Warwick, 1116 Vermont Ave. N.W., archt. Noted Sept. 27.

Bids Received

N. Y., Albany—STATE OFFICE—A. E. Smith, governor and chn. State Building & Sites Comn., Capitol, Albany, completing State Office Building, from Seglin-Harrison Constr. Co., Walbridge Bldg., Buffalo, Proposal 1 $1,083,276, Proposal 2 $1,079,246; constructing vaults, from Diebold Safe & Lock Co., 372 Bway., New York, $125,484; heating, from Power Efficiency Corp., 137 Arthur St., Buffalo, $254,268; plumbing from T. O'Brien, 6311 5th Ave., Brooklyn, Proposal 1 $207,988, Proposal 2, $171,830; electrical work, from Walter H. Taverner Corp., 175 5th Ave., New York, Proposal 1 $318,000, Proposel 2 $320,000, Proposal 3 $308,000; 21 high speed elevators, from General Electric Co., River Rd., Schenectady, Proposal 1 $504,117, Proposal 2 $506,117, and from Otis Elevator Co., 11th Ave. and 26th St., New York, Proposal 3 $548,000, Proposal 4 $556,000. Noted Nov. 15 under "Unclassified."

N. Y., Willard — HOSPITAL — Commissioner Dpt. Mental Hygiene, Capitol, Albany, Nov. 27, general contract psycopathic reception building, Willard State Hospital, from Havens Constr. Co., Olean, $349,900; heating and sanitary work, from J. J. Bresnahan, Inc., 41 Pearl St., Buffalo, $33,732 and $39,744 respectively. Noted Nov. 15. Elecrical work, from F. Handlin, 1621 Bellevue Ave., Syracuse, $12,900.

Conn., New Haven—ARMORY—L. L. Field, 129 Church St., 3 story, 200 x 250 ft., brick, steel, concrete, Beaver Hill, from Chas. Smith & Sons, 254 Main St., Derby, for State, New Haven Armory Comn. $550,000. Noted Oct. 25.

Mass., Westfield—HIGH SCHOOL—City, High School Building Com., 3 story, 175 x 214 ft., brick, steel, stone, Chauncy Allen Park, from M. J. Walsh & Sons, 1412 Dwight St., Holyoke, $385,800. Noted July 26.

N. J., Pennington—HIGH SCHOOL—Bd. Educ., Hopewell Twp., general contract 2 story, basement, 92 x 187 ft., rein.-con., brick, plain found., from D. Tietz & Sons, 414 Market St., Trenton, $104,468.

N. Y., Potsdam—SCHOOL—Lansing & Green, archts., 601 North Trust Bldg., Watertown, general contract 2 story, basement, 70 x 267 ft., rein.-con., brick, LeRoy St., from Burns Bros. & Haley, Inc., Bank Bldg., Watertown, $197,860 plus $15,895; heating and ventilating, also plumbing, from Ryan Plumbing & Heating Co., 160 Court St., Watertown, $25,900 and $8,300 respectively. Noted Oct. 11.

N. J., Secaucus (Ind. br. West New York) — SCHOOL — Bd. Educ., School 1, Nov. 23, 2 story, basement, brick, steel, plain found., Paterson Lane and County Ave., from Censullo Burke Constr. Co., 613 15th St., Union City, $155,000. Noted Nov. 22.

Mich., Ypsilanti — LIBRARY — Michigan State Normal, C. Foster, chn. State Office Bldg., Lansing, Nov. 2, 2 story, basement, 83 x 140 ft., rein.-con., brick, plain found., College Grounds, from Standard Constr. Co., Jackson, $169,500. Noted Oct. 25.

Contracts Awarded

N. H., Jackson—HOTEL—A. P. Gale, Eagle Mt. House, altering and constructing 6 story, basement, brick, timber addition to Eagle Mountain House, plain found. $150,000 or more. Owner builds. Private plans. A. H. Dow, 192 Boylston St., Boston, Mass., consult. archt.

Mass., Boston — HOTEL — Hotel Lenox, L. C. Prior, mgr., Exeter St., altering 4 story, basement, brick, stone, plain found., Boylston and Exeter Sts., to G. Gonia Co., 2 Creek Sq. Est. $150,000 or more.

Mass., Boston—OFFICE—F. J. Dillon, c/o E. T. P. Graham, 165 Newbury St., archt., 4 story, basement, brick, plain found., Union Park and Tremont Sts., to A. Piotti Co., 708 Dudley St., Dorchester. Est. $150,000.

Mass., Boston — OFFICE — United Shoe Mchy. Co., 205 Lincoln St. S. W. Winslow, Jr., chn. Building Comn., general contract 24 story, basement, 200 x 220 ft., brick, steel, limestone, granite, plain found., to George A. Fuller Co., 11 Beacon St. Est. exceeds $150,000. Noted Nov. 1.

Mass., Brighton (sta. Boston)—APARTMENT—Colonial Realty Trust, 1800 Commonwealth Ave., Boston, 3 units, 3 story, basement, irregular sized, brick, stone, plain found., Colborne Rd., separate contracts. $300,000. S. E. Moffle, 51 Cornhill, Boston, archt.

Mass., Brookline (br. Boston)—APARTMENT—J. Silverstein, 31 Wolcott St., Dorchester, 3 story, basement, irregular sized, brick, stone, structural steel, plain found., Lanack Rd. corner Englewood Ave., separate contracts. $150,000. S. E. Moffle, 51 Cornhill, Boston, archt.

Mass., Cambridge (br. Boston) — CHURCH — Calvary Baptist Church, P. Giacobbe, pastor, 3 Woodbine St., 1 story, basement, brick, stone, plain found., Berkshire St., to A. Livingstone & Co., 29 Newbury St., Boston. Est. $150,000.

Mass., Gloucester — BANK — Gloucester Co-Operative Bank, M. Foley, pres., 1 story, basement, brick, steel, plain found., Middle St., to R. E. Runnels Constr. Co., Lowell, and 260 Tremont St., Boston. Est. $150,000.

Mass., Mattapan (sta. Boston)—APARTMENT—M. M. Ginsberg, 55 Liberty Ave., Somerville, 3 story, basement, irregular sized, brick, stone, plain found., Capen and River Sts., separate contracts. $150,000. B. E. Porter, 73 Tremont St., Boston, archt.

Mass., Palmer — HOSPITAL — Commonwealth of Massachusetts, Dpt. Mental Diseases, State House, Boston, 2 story, basement, 45 x 275 ft. childrens building, brick, steel, plain found. at Monson State Hospital, to J. G. Roy & Son Co., 21 Silver St., Springfield. Est. $150,000. Noted Nov. 8.

Mass., Roxbury (sta. Boston)—APARTMENTS—Davidson & Zeiman, 19 Gaston St., 4 units, each 3 story, basement, brick, stone, plain founds., Brookledge and Seaver Sts. Separate contracts. $300,000. Silverman & Brown, 51 Cornhill, Boston, archt.

Conn., Hartford — WAREHOUSE — S. Shulansky, 101 Windsor Ave., 4 story, 85 x 150 ft., brick, rein.-con., to C. Seigel, 304 Edgewood St. Est. $150,000. Noted Nov. 8.

Conn., New Haven—HOSPITAL—New Haven Hospital, G. F. Goodspeed, brick, steel, stone, ward building (1 of group of hospital units), to Hegeman-Harris Constr. Co., 360 Madison Ave., New York. Est. $500,000. Noted Oct. 11.

N. Y., Brooklyn—APARTMENT—B. J. Aaron Co., Inc., 26 Court St., 6 story, 87 x 100 ft., brick, concrete, Caton Ave., separate contracts. $170,000. Cohn Bros., 361 Stone Ave., archt. Noted Nov. 15.

N. Y., Brooklyn — APARTMENT — Corporation, c/o J. Arluck, 224 East 55th St., 6 story, 86 x 100 ft., brick, timber, to Kosk Building Corp., 224 East 55th St. Est. $180,000. Noted Nov. 15.

N. Y., Brooklyn — APARTMENT — Corporation, c/o H. Heringham, 26 Court St., 6 story, 100 x 136 ft., brick, timber, to Nostrand Building Corp., c/o H. Heringham, 26 Court St. Est. $150,000. Noted Nov. 15.

N. Y., Brooklyn — APARTMENT — Corporation, c/o S. Kaplin, 912 1st Court, 4 story, 89 x 120 ft., brick, timber, Humbert St. and Ocean View Ave., separate contracts. $200,000. Seelig & Finkelstein, 66 Court St., archts. Noted Nov. 15.

N. Y., Brooklyn — APARTMENT — Corporation, c/o Leibovitz, 50 Court St., brick, timber, to Breakwater Building Corp., 50 Court St. Est. $300,000. Noted Nov. 15.

N. Y., Brooklyn — APARTMENT — S. Scheinblum, 5309 17th Ave., apartment, separate contracts. $170,000. S. Gardstein, 44 Court St., archt. Noted Nov. 15.

N. Y., Brooklyn — APARTMENT — Veterans Security Corp., N. Klieman, pres., 816 Avenue T, brick, timber, separate contracts. $190,000. Seelig & Finkelstein, 66 Court St., archt. Noted Oct. 15.

N. Y., Brooklyn—STORE and APARTMENT—S. Reswick, 1130 East 24th St., 3 story, brick, separate contracts. $150,000. Cohn Bros., 361 Stone Ave., archts. Noted Nov. 15.

N. Y., Buffalo—RECEPTION—Commissioner Dpt. Mental Hygiene, Albany, general contract reception building, Buffalo, State Hospital to J. O. Cristina Constr. Co., 625 Fargo Ave., $321,632; heating to Power Efficiency Corp., 137 Arthur St., $24,447; sanitary work to J. J. Breenahan, Inc., 41 Pearl St., $39,194; Electrical work to McCarthy Bros. & Ford, 75 West Mohawk St., $11,840. Grand total, $397,113. Noted Nov. 8.

N. Y., Central Islip—HOSPITAL—Dpt. Mental Hygiene, Albany, general contract hospital, at Central Islip State Hospital to Willette Constr. Co., Inc., 114 East 32nd St., New York, $519,839; heating to T. E. O'Brien, 6311 5th Ave., Brooklyn, $27,068; sanitary work to Levine Plumbing Co., 330 West 47th St., New York, $30,349; Electrical work to W. A. Straus, Haverstraw, $12,240. Grand total, $589,496. Noted Oct. 25.

N. Y., Hollis (br. Jamaica)—APARTMENT—Hollis Brass Constr. Corp., 1866 81st St., Brooklyn, 2 story, brick, steel, 114 Dr. and 205th St., separate contracts. $150,000. I. Kallich, 26 Court St., Brooklyn, archt.

N. Y., Kings Park — EMPLOYEES HOME — Commissioner Mental Hygiene, Capitol, Albany, single employees building at Kings Park State Hospital to Rayner Bros., 20 Duryea St., Islip, $204,985; heating to T. E. O'Brien, Inc., 611 5th Ave., Brooklyn, $11,441; sanitary work to Levine Plumbing Co., 330 East 47th St., New York, $21,400; Electrical work to Fischback & Moore, Inc., 226 East 41st St., New York, $6,440. Grand total $244,266. Noted Oct. 4.

N. Y., New York—APARTMENT—B. P. Cerussi, 655 East Fordham Rd., apartment, 36 Bogardus Pl., to Cerussi Contg. Co., 655 East Fordham Rd. Est. $150,000.

N. Y., New York—APARTMENT—Lenox Hill Building Corp., F. Burrall Huffman, pres., 14 East 47th St., 13 story apartment, 4-10 East 72nd St., to G. A. Fuller Co., 949 Bway. Est. $850,000.

N. Y., Newark—DORMITORIES—Commissioner Mental Hygiene Dpt., Albany, general contract East and West Dormitories, dining room and service building at Newark State School to Felton Constr. Co., 1450 Michigan Ave., Buffalo, $710,968; heating and sanitary work to F. W. Murtagh Co., 18 Howell St., Rochester, $37,877; and $36,015. Grand total, $802,753. Noted Oct. 4.

N. J., Belleville (br. Newark)—APARTMENT—Davidson & King, 28 Malone Ave., 5 story, basement, 90 x 100 ft., brick, steel, plain found., Tappan and Floyd Aves., separate contracts. $150,000. Brach & Singer, 60 Park Pl., Newark, archts.

N. J., Highland Park (br. New Brunswick)—APARTMENT—H. Solomon, Baldwin St., New Brunswick, 3 story, basement, brick, steel, plain found., Abbott St., separate contracts. $150,000. Noted Nov. 29.

N. J., Jersey City—APARTMENT—S. and S. Building Co., C. Schultze, pres., 2 Boyd Ave., 4 story, basement, 50 x 100 ft., brick, steel, plain found., Clinton St., separate contracts. $150,000. E. M. Patterson, 76 Montgomery St., archts. Noted Nov. 29.

N. J., Jersey City—WAREHOUSE and FREIGHT TERMINAL—Delaware, Lackawanna & Western R.R. Co., 90 West St., New York, G. J. Ray, ch. engr., Hoboken, general contract 1 and 8 story, 342 x 410 ft. rein.-con., brick, plain and concrete pile founds., Grove St. and Jersey Ave., to Turner Constr. Co., 420 Lexington Ave., New York. Est. $4,500,000. Noted Oct. 25.

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Buildings—Commercial (Continued)

N. J., Lawrenceville — INFIRMARY — Lawrenceville Preparatory School, general contract 2 story, basement, brick, steel, plain found., to Matthews Constr. Co., Princeton. Est. $150,000.

N. J., Newark — GARAGE — J. Weisberger, 55 Shanley Ave., 2 story, basement, 100 x 150 ft., brick, steel, rein.-con., plain found., 233-47 Park Ave., separate contracts. $150,000. Private plans. Noted Nov. 22.

N. J., Newark—OFFICE—Prudential Insurance Co., Broad and Washington Sts., general contract 3 story, basement, brick, steel addition, 80-84 Academy St., to Robert Hourie, Jr., 763 Broad St. Est. $150,000. Noted Nov. 1.

N. J., North Arlington (mail Arlington) —APARTMENT—Jersey Capital, Inc., 60 Park Pl., Newark, 3 story, basement, 50 x 100 ft., brick, steel, plain found., Belleville Turnpike and Prospect St., separate contracts. $150,000. P. Singer, 60 Park Pl., Newark, archt.

N. J., Paterson—APARTMENTS—E. H. Ellis, 444 Ellison St., 5 story, basement, 227 East 30th St., $160,000; 5 story, basement, 675 Bway., $150,000, both brick, steel, plain found., separate contracts. Private plans. Noted Nov. 29.

N. J., Plainfield — SHOWROOM and STORES — Packard Auto Sales Co., 628 Park Ave., general contract 2 story, basement, 115 x 140 ft. rein.-con., brick, steel addition, plain found., 620-8 Park Ave., to Wigton-Abbott, 552 West 23rd St., New York. Est. $150,000.

Pa., Beaver Falls — BANK — Farmers Natl. Bank, 7th and 11th Sts., bank, to Boldt Constr. Co., 1969 East 70th St., Cleveland, O. Est. $150,000.

Va., Richmond — HOTEL — Richmond Hotels, Inc., T. Gresham, pres., 2330 Monument Ave., 15 story, fireproof hotel 5th and Franklin Sts., to Wise Granite Constr. Co., American National Bank Bldg. Est. $1,500,000. Foundation under way. Noted Mar. 8.

N. C., Charlotte—APARTMENT HOTEL and STORE—J. P. Matheson, Charlotte Ear, Eye, Nose & Throat Hospital, 8 story, brick, stone, rein.-con., steel, 6th and Tryon Sts., to J. P. Little & Son, Builders Bldg. Est. $250,000. F. L. Holmes, 513 South Tryon St., lessee.

O., Cincinnati — APARTMENT — Riverview Apartments, Inc., 900 Neave Bldg., 8 story, basement, rein.-con., brick, plain found., Hackberry St., to A. D. Gates Constr. Co., 1611 Chemical Bldg., St. Louis, Mo., $750,000.

O., Cleveland — APARTMENTS — M. Teplitz, 10003 Columbia Ave., masonry contract two 4 story, basement, brick, to M. Berkoff, 3346 Washington Blvd., Cleveland Heights. Est. $300,000. Noted Nov. 22.

O., Toledo—HOTEL—Stevens Hotel Co., c/o A. Hahn, archt., Close Realty Bldg., 12 story, basement, 60 x 120 ft., rein.-con., brick, stone, rein.-con., found., Jefferson St., to H. J. Spieker & Co., 1418 Elm St. Est. $1,000,000.

Mich., Detroit—COMMERCIAL—A. R. Cunningham, Woodward Ave., 3 story, basement, 60 x 100 ft., rein.-con., brick, steel, stone, plain found., Griswold St., to Otto Misch Co., 159 East Columbia St. Est. $200,000.

Mich., Detroit—MASONIC TEMPLE—S. E. Remey, archt., 1139 Griswold St., 2 story, basement, 100 x 102 ft., rein.-con., brick, steel, plain found., to Butts Constr. Co., Marquette Bldg., for Pillar Masonic Temple Assn., c/o E. S. Gallagher, 6500 Epworth Blvd. Est. $150,000. Noted Nov. 1.

Ill., Chicago — APARTMENT — E. F. Behrens, archt., 605 North Michigan Ave., general 6 story, 67 x 118 ft., for Washington Boulevard Corp., to Morrow & Evans, 244 West 47th St.; heating, to Advance Heating Co., 117 North Des Plaines Ave.; plumbing, to J. M. Kalish, 3751 Lawrence Ave.; ice machinery, to Peerless Ice Machy. Co., 515 West 35th St.; plastering, to Peddle Carnie Co., 329 South Wood St.; ventilating, to Gillespie-Dwyer Co., 2239 West Lake St.; electrical, to Meade Electric Co., 3352 Franklin Blvd.; Iron work, to Wetzel Iron Wks., 3345 West Grand St. Est. $300,000. Noted Sept. 20.

Ill., Chicago — APARTMENT — M. L. Komar, archt., 7 South Dearborn St., masonry contract 5 story, basement, 46 x 189 ft., 6811 Paxton Ave., for Shandeling & Cole, 5 South Wabash Ave., to H. C. Jensen, 6101 Forest Glen Ave.; carpentry, to Gustafson, 1630 East 70th St.; heating, to M. J. Plonsker Co., 608 West Randolph St.; plumbing, to M. B. Mitchell & Son. Est. $340,000.

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Ill., Chicago—APARTMENT—Leichenko & Esser, archts., 38 South Dearborn St., general contract 21 story, basement, 76 x 125 ft., to C. B. Johnson & Son, 306 South Wabash Ave., for Sixteen-Hundred-Forty East Fifty-Sixth Street Building Corp., c/o architects. Est. $1,500,000. Noted Nov. 29.

Ill., Chicago — CLUB, STORE and OFFICE — K. M. Vitzhum & Co., archts., 307 North Michigan Ave., general contract 35 story, basement, 80 x 150 ft., rei.-con., brick, steel, terra cotta, caisson found., Wells St. and Wacker Dr., to McLenna Constr. Co., 307 North Michigan Ave., for La Salle Club, 30 North La Salle St. Est. $3,000,000. Noted May 5, 1927.

Ill., Oak Park—OFFICE and STORE—H. Forsythe, 140 South Dearborn St., Chicago, general contract 4 story, basement, 80 x 120 ft., to Dahl-Stedman Co., 11 South La Salle St., Chicago. Est. $300,000. Noted Oct. 18.

Wis., La Crosse—STORE—F. Hoeschler, 502 Main St., general contract 3 story, 60 x 125 ft. store, to Theo. Molzahn & Sons; heating and plumbing, to P. J. Overson; electrical work, to J. F. Popenfuss, all in La Crosse. Sears Roebuck & Co., Arthington and Homan Sts., Chicago, Ill., lessee.

Wis., La Crosse—STORE—F. Hoeschler, 502 Main St., general contract 3 story, 70 x 140 ft., brick, steel, cut stone, to T. Molzohn & Son; heating and plumbing, to Marquardt-Mawning Co.; electrical work, to Brocken, Inc., cut stone, to J. Dogendesh; structural steel, glass, to J. Leifelder & Son, Inc.; refrigeration, sheet metal, to J. Ledegar; mill work, to Segelke & Kohnhaus Mfg. Co., all foregoing in La Crosse; reinforcing steel, to Crown Iron Wks. Co., 1229 Tyler St., Minneapolis, Minn. Montgomery Ward & Co., Chicago Ave. and Larr St., Chicago, Ill., lessee.

Wis., Milwaukee—APARTMENT—E. P. Helfaer, 377 Prospect Ave., concrete contract for 8 story, 92 x 94 ft., rein.-con., brick, plain found., Prospect Ave., to P. Riesens & Sons, 1018 Humboldt Ave.; reinforcing to Truscon Steel Co., 230 Wisconsin Ave. Noted Sept. 6.

Kan., St. John — COURT HOUSE — Stafford Co. general contract 4 story, basement, 48 x 54 x 61 x 78 ft., rein.-con., brick, stone, terra cotta, to Spencer Constr. Co., Spencer, $132,825. Noted Oct. 28.

Kan., Wichita—OFFICE—Central Building Co., R. Clapp, secy., general contract 6 story (ultimately 10 story), basement, 120 x 125 ft., rein.-con., brick, terra cotta, Main and Douglas Sts., to G. H. Siedhoff Constr. Co., Broadview Hotel. Est. $500,000.

Mo., Carthage — HOSPITAL — McKune-Brooks Memorial Hospital Assn., c/o S. McReynolds, pres., general contract 3 story, basement, 45 x 150 ft., rein.-con., brick, stone, to Busboom Bros., Carthage. $78,000. Noted Nov. 8. Plumbing, to Stanton Plumbing Co., Carthage, $9,700; heating, to Knudsen Plumbing Co., Carthage, $10,246.

Mo., St. Louis — EXHIBITION HALL — Forest Park Highlands Exhibition & Amusement Co., c/o B. G. Brinkman, pres., 5600 Oakland Ave., general contract two 288 x 300 ft. exhibition halls, 276 x 476 ft. main building, rein.-con., brick, steel, to Boaz-Kiel Constr. Co., 409 North 7th St. Est. $1,500,000. Noted Aug. 9.

Tex., Georgetown—HOTEL—T. E. Smith, Temple, general contract 7 story, part basement, 60 x 114 ft., brick, stone, rein.-con., plain found., to Davis Bros., Georgetown, $150,000 cost plus percentage basis. Bids about Dec. 1 sub and mechanical bids. Noted Nov. 22.

Tex., Sherman — HOME — J. Tulloch, archt., Sherman, 2 story, basement administration building (1st unit of home), to Cowan Bros., Shawnee, Okla., for Supreme Forest Woodman Circle, M. E. La Rocca, natl. pres., Omaha, Neb., $150,000. Total est. $500,000. Noted Nov. 15. Plumbing, to J. C. Korioth, Sherman; wiring to Koeppen & Baldwin, Denison.

Ore., Portland — APARTMENT — R. C. Finch, 738 East 72nd St., 9 story, basement, 65 x 100 ft., fireproof, East 21st St. and Sandy Blvd., to E. L. Constr. Co., Portland, $250,000.

Calif., Livermore — OFFICE, WAREHOUSE, etc. — Pacific Telephone & Telegraph Co., 140 New Montgomery St., San Francisco, 1 story, basement, tile, rein.-con., 2nd St. and South Livermore Ave., to W. G. Thornally, 354 Hobart St., Oakland, $165,000.

Calif., Los Angeles — APARTMENT — Evans-Zukin Constr. Co., 181 North La Brea Ave., 4 story, basement, brick, concrete, Sycamore Ave. $150,000. Owner builds. R. Nicolais, 686½ South Vermont Ave., archt.

Calif., Los Angeles — MAUSOLEUM — Roman Catholic Bishop of Los Angeles and San Diego, (1st unit) stone, marble, rein.-con., mausoleum at Calvary Cemetery, 4305 Whittier Blvd., to B. D. Kronnick Co., 3622 Avalon Blvd., $300,000. Total cost $1,000,000.

Calif., Los Angeles—OFFICE and GARAGE — Auburn Automobile Corp., E. L. Cord, pres., 5618 Sunset Blvd., 12 story, basement, steel, rein.-con., granite, marble, Wilshire Blvd. and Mariposa Ave. to Lynch-Cannon Eng. Co., Chapman Bldg. Est. $2,000,000.

Calif., San Francisco—APARTMENTS—Cox Bros., 1950 Irving St., three 3 story, basement, stucco, Cervantes Ave. near Avila St., day labor. $50,000 each. H. C. Baumann, 251 Kearny St., archt.

Calif., San Francisco—HOTEL—Christiansen Bros., 685 20th Ave., 6 story, basement, steel, concrete, Ellis St. near Fillmore St., day labor. $165,000. Private plans.

Calif., Westwood — STUDIO — W. Fox Film Corp., 28 buildings, incl. four 165 x 212 ft. buildings, 60 x 210 ft. administration building with 75 ft. tower, to G. Miller, 101 North Pruess Rd., Beverly Hills. $10,000,000.

B. C., Essondale—HOSPITAL—Deputy Minister, Provincial Govt., Victoria, and P. Philip, engr. Dpt. P. Wks., Victoria, mental hospital, rein.-con., brick, steel, stone, incl. addition to power plant, to Pacific Engrs. Ltd., 827 Powell St., Vancouver, $1,452,996. Noted Nov. 29.

Buildings—Educational, Religious

Proposed Work

Mass., Boston—SCHOOL—City, Schoolhouse Dpt., City Hall, plans by A. J. Carpenter, 1 Moss Hill Rd., Jamaica Plain, and soon takes bids 2 story, basement, 50 x 80 ft., brick, granite, limestone addition, concrete found., Hutchins St. $150,000. Noted June 14.

Mass., New Bedford — SCHOOL — St. Theresa's Parish, J. Hamel, pastor, 2745 Acushnet Ave., 3 story, basement, brick, Acushnet Ave. $150,000-$175,000. Engineer and architect not selected.

Conn., Bridgeport — CHURCH — St. George's Parish, H. E. Kelly, pastor, 755 Clinton Ave., plans by E. B. Caldwell, 886 Main St., 40 x 125 ft., 40 ft. high, brick, stone, American Gothic design, Beechwood and Clinton Aves. $150,000.

Conn., Hartford—CHURCH and PARISH HOUSE—Broadview Community Church, S. B. Crosland, pastor, brick, stone, Roger and Oliver Sts. $150,000. Engineer and architect not selected.

N. Y., Elmira—NURSES HOME and SCHOOL—St. Joseph's Hospital, 555 East Market St., Elmira, Bishop Hickey, pres. Bd., revised sketches by Haskell & Considine, 612 Hallet Bldg., 10 story, basement nurses home and school, 555 Market St. $300,000.

N. Y., New York—COLLEGE—Columbia University, Amsterdam Ave. and 119th St., plans by McKim, Meade & White, 101 Park Ave., 10 story natural science college, brick, steel, Amsterdam Ave. and 119th St. $1,000,000.

N. J., Belleville (br. Newark) — CHURCH—Christ Episcopal Church, Main St., revised plans by W. H. Hayes, 100 East 42nd St., New York, 1 story, basement, brick, steel, plain found., Main St. $150,000. Noted Oct. 25.

N. J., Caldwell—HIGH SCHOOL—Bd. Educ., Boro Hall, sketches by Guilbert & Betelle, 20 Branford Pl., Newark, 2 story, basement, brick, steel, rein.-con., plain found. $150,000.

N. J., Glassboro—HIGH SCHOOL—Bd. Educ. revised plans high school. $891,000. Engineer and architect not announced. Noted Apr. 14, 1927.

N. J., Jersey City—SCHOOL—Our Lady of Czvestchowa Roman Catholic Church, I. Szudrowicz, pastor, 120 Sussex St., 2 story, basement, rein.-con., brick, steel, plain found., Henderson and York Sts. $200,000

N. J., Millville—SCHOOL—Bd. Educ. sketches by A. Merchant, 52 Paterson St.,

Buildings—Educational, Religious—(Contd.)

New Brunswick, 2 story, basement, rein.-con., brick, steel, plain found. $200,000.

N. J., New Brunswick—FRATERNITY HOUSE—Beta Theta Pi Fraternity J. N. Wittpen, Jr., 33 Beaumont Pl., Newark, plans by W. J. Fitzsimmons, 626 Central Ave., East Orange, 3 story, basement, brick, steel, plain found., College Ave. $150,000. Noted Nov. 29.

N. J., River Edge—SCHOOL—Bd. Educ., Boro Hall, plans by E. Sibley, Bluff Rd., Palisade, 2 story, basement, brick, steel, plain found. $150,000.

N. J., Woodridge (br. Rutherford) — SCHOOL—Bd. Educ., Pub. School 2, plans by J. N. Pierson & Son, 198 Jefferson St., Perth Amboy, 2 story, basement, brick, steel, plain found., Hackensack St. $150,000.

Pa., Easton—COLLEGE—Lafayette College bids in February, 3 story college. $200,000. Warren & Wetmore, 16 East 47th St., New York, archts.

Pa., State College—SCIENCE—Pennsylvania State College, c/o R. I. Webber, supt. buildings, plans by C. L. Klauder, 1429 Chestnut St., Phila., 2 story, basement, brick, steel science building. $150,000.

Pa., Swissvale—SCHOOL—School Dist. plans by R. McCartney, 600 Magee Bldg., Pittsburgh, 2 story, basement, brick, steel, Schoyer Ave. $150,000.

Pa., Sharon—HIGH SCHOOL—Bd. Educ. plans by Clipper & Clipper, McDowell Natl. Bank Bldg., Junior High School, 3 story, basement, brick, steel. $400,000.

Md., Baltimore — ADMINISTRATION — Johns Hopkins University, F. J. Goodnow, pres., sketches by John Russell Pope, 15 West 46th St., New York, administration building. $1,000,000.

Md., Baltimore—CHURCH and SUNDAY SCHOOL—Second Church of Christ Scientist, G. W. Smith, Union Trust Bldg., plans by Wyatt & Nolting, Keyser Bldg., 1 story, basement, stone, steel, Liberty Heights Ave. $175,000.

D. C., Wash.—SEMINARY—St. Joseph's Seminary plans by Maginnis & Walsh, Statler Bldg., Boston, Mass., seminary, Varnum, 13th and 14th Sts. To exceed $150,000.

Ga., Atlanta — CHURCH — Burge & Stevens, archts., 101 Marietta Bldg., soon let contract 2 story, basement, 200 x 242 ft., Peachtree St., for 1st Baptist Church, c/o B. L. Bugg, Henry Grady Bldg. $450,000.

Ky., Ludlow—SCHOOL—Bd. Educ. plans by F. J. Porter, 1714½ North High St., Columbus, O., 3 story, basement, brick, rein.-con., plain found., Main St. $168,000.

O., Canal Winchester—HIGH SCHOOL—Franklin Co. Bd. Educ., Columbus, plans by Richards, McCarthy & Bulford, 584 East Broad St., Columbus, high school. $150,000.

O., Cleveland—CHURCH—St. Benedicts Roman Catholic Church, S. Gmuch, pastor, Lamontier Ave. and East Blvd., plans by Potter Gabele Co., Prospect-Fourth Bldg., 1 story, rein.-con., brick, Lamontier Ave. and East Blvd. $150,000.

O., Cleveland—CHURCH and SCHOOL—Christ The King Roman Catholic Church, T. V. Shannon, pastor, Guarantee Title Bldg., 1 and 2 story, brick, steel, concrete, Quilliams Rd. $150,000. Engineer and architect not selected.

O., Copley—SCHOOL—Bd. Educ. bids in January, 2 story, basement, brick, steel, incl. gymnasium, auditorium. $175,000. Henry & Murphy, Security Natl. Bldg., Akron, archts.

Mich., Bloomfield Hills (Birmingham P. O.)—SCHOOL—Cranbrook School for Boys, Christ Episcopal Church, plans by Cranbrook Architectural Service, Lone Pine Rd., 2 story, basement, rein.-con., brick, steel, plain found., Lone Pine Rd. $200,000.

Mich., Detroit — SYNAGOGUE and SCHOOL — Congregation Shaarey Zide, c/o A. Kahn, archt., 1000 Marquette Bldg., 3 story, basement, rein.-con., brick, steel, plain found., Chicago Blvd. $500,000.

Mich., Fordson (br. Detroit)—SCHOOL—Bd. Educ., 3 story, basement, 150 x 173 ft., rein.-con., brick, steel, stone, plain found. $350,000. Van Leyen, Schilling & Keough, 3440 Cass Ave., Detroit, archt.

Minn., Duluth—SCHOOL—Bd. Educ., 220 North 1st Ave. E., plans by C. K. Smith, engr. and archt., 909 Torrey Bldg., 2 story, basement, 100 x 150 ft., rein.-con., brick, tile, concrete pile found., East Superior Ave. $160,000.

Mo., St. Louis—SCHOOLS—Bd. Educ., c/o Superintendent of Instruction Maddox, 911 Locust St., sketches by R. M. Milligan, engr. and archt., c/o owner, 12 rein.-con., brick, stone Junior High Schools, altering 7 existing buildings. $10,450,000.

Mo., St. Louis—TEMPLE—Jewish Congregation, c/o J. Glaser, 1113 Locust St., sketches rein.-con., brick, stone temple. $1,000,000.

Ariz., Yuma — HIGH SCHOOL — Yuma High School, bids after Dec. 1, 2 and 1 story, 184 x 184 ft. main building, 112 x 116 ft. gymnasium, Yuma St. $225,000. T. C. Kistner & Co., Architects Bldg., Los Angeles, Calif., archts.

Colo., Colorado Springs—CHAPEL—Colorado College, C. A. Meirrow, pres., chapel, on campus. $250,000 donation. Engineer and architect not selected.

Calif., Los Angeles — COLLEGE — University of Southern California plans by R. C. Flewelling, 450 North Beverly Blvd., 2 story, 125 x 180 ft., brick, timber, rein.-con., on campus. $225,000.

Calif., Los Angeles—HIGH SCHOOL—Bd. Educ. plans by J. P. Krempel & W. E. Erkes, 415 Bank of Italy Bldg., Junior High School Buildings, incl. 2 story, 90 x 160 ft. auditorium building, 900 seating capacity, 2 story, 62 x 350 ft. classroom building, 2 story, 50 x 91 ft. home economics building, 300 seating capacity, 1 story, 68 x 162 ft. shop building, all brick, timber, Hoover St. $350,000. E. L. Ellingwood, H. W. Hellman Bldg., mechanical engr.

Calif., Santa Ana—SCHOOLS—Bd. Educ. plans by Allison & Allison, Hibernian Bldg., Los Angeles, new school plant at Francis Willard Jr. High School, plant in Costa Mesa, addition to Julia Lathrop Jr. High School, new science building at Senior High School, additions to several elementary schools. $1,000,000.

Ont., North Bay—SCHOOL—Bd. Educ., G. W. Lee, chn., rein.-con., brick, steel, plain found. $250,000. Engineer and architect not selected.

Ont., Ottawa—CHURCH and SUNDAY SCHOOL HALL—C. Burgess, archt., 53 Queen St., steel, stone, plain found., Carling Ave., for St. Mathews Church. $160,000.

Bids Asked

Conn., Waterbury—SCHOOL—Dec. 13, by City, School Bd., J. J. Walsh, 2 story, basement, 70 x 140 ft., brick, steel, limestone, Birch and Wall Sts. $150,000. T. M. Freney, 51 Leavenworth St., archt. Buck & Sheldon, 60 Prospect St., Hartford, engrs. Noted Sept. 27.

Conn., West Hartford (br. Hartford) — SYNAGOGUE — Dec. 12, by Beth Israel Congregation, 21 Charter Oak Ave., Hartford, brick and stone Farmington Ave. $200,000. C. R. Greco, 11 Beacon St., Boston, Mass., archt. Noted Nov. 29.

N. Y., Carmel—HIGH SCHOOL—Dec. 7, by Union Free School Dist., high school. $220,000. Knappe & Morris, 171 Madison Ave., New York, archts. Noted Oct. 18.

N. Y., New York — CHURCH and APARTMENT—See "Contracts Awarded."

N. Y., New York — NURSES HOME — Dpt. Health, 505 Pearl St., bids about Jan 1, 4 story nurses home, North Brother Island. $150,000. G. M. McCabe, 96 5th Ave., archt.

N. J., East Orange—CHURCH—Maginnis & Walsh, archts., Statler Bldg., Boston, Mass., taking new bids general contract 2 story, basement, 109 x 182 ft., brick, steel, plain found., Midland Ave., for Church of the Holy Name of Jesus, 182 Midland Ave., $200,000. Former bids rejected. Noted Oct. 18.

N. J., Little Ferry—SCHOOLS—Bd. Educ., Boro Hall, taking bids general contract 2 story, basement, rein.-con., brick, steel, plain found., $150,000. Hacker & Hacker, Fort Lee Trust Bldg., Fort Lee, archts. Noted July 5.

N. J., West New York—SCHOOL and HALL—W. Mayer & R. E. Genex, asso. archts., 711 Bergenline Ave., bids about Jan. 15, 2 story, basement, brick, steel, plain found., Hudson Blvd. and 14th St., for Madonna Della Libera Church, Hudson Blvd. and 14th St., $150,000.

Pa., Erie—TEMPLE—Dec. 10, by C. R. Greco, archt., Guardian Bldg., Cleveland, O., 1 and 2 story, 71 x 160 ft., brick, steel, concrete, for Anshe Chesed Temple. $250,000.

D. C., Wash.—HIGH SCHOOL—Dec. 10, by District Comrs., District Bldg., remodeling and constructing addition to Francis Junior High School.

W. Va., Parkersburg — SCHOOL — Bd. Educ., J. F. Echoles, pres., Library Bldg., bids about Dec. 19, addition, two wings and rear Senior High School. $400,000. Warne, Tucker, Silling & Hutchinson, Masonic Temple, Charleston, archts. T. T. Stansbury, Guarantee Bldg., Parkersburg, assoc. archt.

Miss., Columbus—SCHOOL—Dec. 13, by Mississippi State College for Women, c/o W. C. Trotter, secy., Jackson, secy., rein.-con., Home Economics, Hygiene Dormitory buildings, also remodeling chapel into library. $550,000. C. H. Lindsley, Lamar Life Bldg., Jackson, archt.

La., Independence — HIGH SCHOOL — Dec. 28, by W. J. Dunn, secy. Tangipahoa Parish School Bd., Amite, 2 story, rein.-con., brick, stone, rein.-con. found. $150,000. R. H. Goodman, Baton Rouge, archt. Noted Nov. 1.

Ky., Richmond—AUDITORIUM—Jan. 18, by Bd. Regents Eastern Kentucky State Teachers College, auditorium. C. C. and E. A. Weber, Ingalls Bldg., Cincinnati, O., archts. Noted Jan. 21.

Minn., Minneapolis—DORMITORY—Dec. 14, by State Dpt. of Administration & Finance, State Capitol, St. Paul, 3 story, basement, rein.-con., brick, bedford stone, State University Campus. $300,000. C. H. Johnston, 360 Robert St., St. Paul, archt.

Mo., Joplin—SCHOOL—Dec. 18, by Bd. Educ., for Alcott School, 2 story, basement, 130 x 160 ft., brick, stone, semi-fireproof; addition to West Central School. Felt, Dunham & Kriehn, 300 East 47th St., Kansas City, archts.

Tex., San Antonio—HIGH SCHOOL—Bd. Educ., Harlandale Dist., c/o M. L. Rees, 410 Pacific Ave., taking bids Junior High School, 2 story, 68 x 140 ft., brick, rein.-con., plain found. $150,000. Morris & Noonan, c/o Builders Exch. Bldg., archts. Noted Nov. 15.

Calif., Chico—SCHOOL—Dec. 18, by G. B. McDougal, state archt., P. Wks. Bldg., Sacramento, 2 story, basement, 64 x 320 ft. administration building, brick, rein.-con., plain found., at State Teachers College. $200,000. Concrete pile foundations already contracted. Noted Nov. 1.

Calif., Inglewood — HIGH SCHOOL — Inglewood Union High School Dist., bids about Dec. 15, 2 story, 200 x 337 ft. main, 1 story, 96 x 213 ft. manual arts, 96 x 144 ft. cafeteria buildings, rein.-con., brick, Lawnsdale Sect. $400,000. T. C. Kistner & Co., 814 Architects Bldg., Los Angeles, archts. Noted July 26.

Calif., Sacramento—SCHOOL—Jan. 14, by Bd. Educ. (3rd unit) Lincoln School, 2 story, brick, concrete. $200,000 or more. Dean & Dean, State Life Bldg., archts.

Calif., San Francisco — SCHOOL — Dec. 26, by Bd. P. Wks., Marina Elementary School, 2 story, rein.-con. To exceed $150,000. Engineer and architect not selected.

Contracts Awarded

Mass., Chicopee—COLLEGE—Our Lady of the Elms, c/o T. Leary, bishop, foundation for rein.-con., brick, steel academy, to Daniel O'Connell & Sons, Inc., 480 Hampden St., Holyoke. Total est. $150,000. Noted Oct. 4.

Mass., Danvers—NURSES HOME—Dpt. Mental Diseases, State House, Boston, 3 story, basement, brick, steel, plain found., at State Hospital, to Z. A. Houle, 53 Central St., Lowell. Est. $150,000. Noted Oct. 4.

Mass., Worcester—HOME—St. Francis Aid Society, J. H. Fontaine, 4 story, basement, 80 x 125 ft., brick addition, plain found., Thorne St., to L. Rocheford & Son, 44 Front St. Est. $150,000 or more.

R. I., Cranston (mail Providence)—SCHOOL—At office L. A. Smith, clk., general contract 2 story basement, brick, stone, plain found., to E. Turgeon, 36 Exchange Pl., Providence, $199,338. Noted Oct. 25.

N. Y., Brooklyn—SCHOOLS—Bd. Educ., 500 Park Ave., New York, general contract P. S. 235 and P. S. 233, to D. M. W. Contg. Co., 5th Ave. and 92nd St., $516,770 and $521,000 respectively; heating, to D. J. Rice, Inc., 606 1st Ave., New York, $73,200 and $72,700 respectively; plumbing, to H. Homer & Sons, 137 58th St., $27,935 and $27,290 respectively. Grand total $1,238,895. Noted Nov. 15.

N. Y., New York — CHURCH and APARTMENT—Church Eng. Co. (archts. and lessee), 101 Park Ave., 15 story church and apartment, for Calvary Baptist Church, 123 West 57th St., separate contracts. $2,500,000. Noted Sept. 20.

N. Y., New York—CCLLEGE—Columbia University, H. L. Norris, in charge, 10 story college, Amsterdam Ave. and 119th St., to T. O'Reilley, 415 Lexington Ave. Est. $1,000,000.

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Buildings—Educational, Religious (Cont.)

N. J., Princeton—SCHOOL—Princeton Junior School for Boys, M. Murch, head master, general contract 2 story, basement, brick, steel, plain found., to Mathews Constr. Co., Princeton. Est. $150,000. Noted Nov. 29.

N. J., South Orange—BIBLE SCHOOL—First Presbyterian Church, Irving Ave., general contract 3 story, basement, 65 x 110 ft., brick, steel, plain found., to Fatzler Co., 676 South 16th St., Newark. Est. $150,000. Noted Sept. 20.

Pa., Slippery Rock — TEACHERS TRAINING SCHOOL — Slippery Rock State Normal School, W. L. Linwood, principal, general contract 2 story, basement, 65 x 168 ft., brick, concrete, steel, to F. D. Beyer Co., Tyrone, $127,780.

Md., Baltimore—CHURCH and HALL—Frohman, Robb & Little, archts., 140 Boylston St., Boston, Mass., 1 story, 57 x 120 ft., rein.-con., brick, hollow tile, to E. A. Wehr, Highland Bldg., Pittsburgh, Pa., for Church of Our Savior English Lutheran Church, A. Strenke, pastor. Noted Oct. 11.

N. C., Durham—COLLEGE—North Carolina College for Negroes, R. L. Flowers, chn. Bd. Trustees, 3 story, basement, 50 x 150 ft., fireproof administration building, incl. 14 classrooms, library, chemistry, physics laboratories and lecture rooms, to G. W. Kane, 1st Natl. Trust Bldg. Est. $150,000. Noted Aug. 23.

O., Springfield — GYMNASIUM and ATHLETIC—Bd. Trustees Wittenberg College, 2 story, basement, 110 x 130 ft., brick, steel, on campus, to J. I. Barnes, Springfield $184,600.

Mich., Detroit—SCHOOL—C. A. Gadd, bus. mgr. Bd. Educ., 1354 Bway. Ave., 2 story, basement, rein.-con., brick, steel, plain found., to A. F. Evans, 14267 Fordham Ave. Est. $175,000. Noted Sept. 27.

Ill., Chicago — DORMITORIES — H. J. Gaul, archt., 228 East Superior St., masonry contract two 2 story, 50 x 120 ft. brick, to J. Gebhardt & Son, 179 West Washington St., for Angel Guardian Orphanage, 2001 Devon Ave. Est. $250,000. Noted Oct. 18.

Ia., Davenport — SCIENCE HALL — St. Ambrose College, P. A. Hauber, pres., 3 story, basement, 60 x 140 ft., rein.-con., brick, stone, to Blunk & Joehnke, Davenport. Est. $150,000. Noted Oct. 11.

Ark., North Little Rock—HIGH SCHOOL—School Bd., W. E. Phipps, secy., 11th and Willow Sts., general contract 3 story, basement, 2 story tower, 52-room school, to William Peterson Co., El Dorado, $294,987; heating, to El Dorado Heating & Plumbing Co., El Dorado, $52,454. Noted Nov. 15.

Tex., Beaumont—HIGH SCHOOL—Bd. Educ., M. E. Moore, pres., Weiss Bldg., general contract 3 story, 164 x 323 ft., and 1 story, 89 x 107 ft. gymnasium, brick, steel, stone, hollow tile, to McDaniel Bros., Kyle Bldg., $617,450; heating and plumbing, to Warren & Shivers, 305 Hagerman St., Houston, $67,002; electric wiring, to A. T. Cook, Esperson Bldg., Houston, $29,659. Grand total $714,101. Noted Nov. 1.

Tex., Houston — HIGH SCHOOL — Houston Independent School Dist. at office H. L. Mills, bus. mgr., 1600 Washington Ave., completing 3 story and constructing brick, steel addition to Jefferson Davis Senior High School, plain found., to Base Constr. Co., 2215 Post Dispatch Bldg. $11,047 and $157,200 respectively. Noted Nov. 8.

Ore., Portland — HIGH SCHOOL — City School Bd., 3 story, basement, irregular shaped, rein.-con., timber, Clinton St., to H. E. Doering, East 7th St. $509,803.

B. C., Alert Bay—SCHOOL—Dpt. Indian Affairs, D. C. Scott, deputy minister, Ottawa, Ont., 4 story, 60 x 147 ft., brick, stone, plain found., Indian Reserve, to T. Carson, 1836 14th Ave., Vancouver, $150,000.

Federal Government Work

Proposed Work

Conn., New London—DREDGING—Spec. 5785—Bureau Yards & Docks, Navy Dpt., Wash., D. C., 3,000 cu.yd. at Naval Submarine Base.

Pa., Phila. — REFRIGERATING UNIT—Spec. 5796—Bureau Yards & Docks, Navy Dpt., Wash., D. C., automatic refrigerating unit.

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D. C., Wash. — HOSPITAL — Quartermaster Division, final plans neuropsychiatric unit for Walter Reed General Hospital. $250,000. Noted Aug. 9.

Virginia and North Carolina—DREDGING—U. S. Engineer Office, Norfolk, Va., rejected bids Oct. 18, in Pamlico River-Bay River Section, Inland Waterway from Norfolk, Va., to Beaufort Inlet, N. C. Noted Nov 1.

Fla., Jupiter—BULKHEAD—Spec. 5703—Bureau Yards & Docks, Navy Dpt., Wash., D. C. rejected bids repairing bulkhead at Naval Radio Station. Noted Nov. 22.

Miss., Vicksburg — QUARTERBOATS — U. S. Engineers Office, P. O. Box 671, rejected bids Nov. 9, 3 wooden quarterboats. Noted Oct. 25.

Mich., Camp Custer (br. Battle Creek)—WATERPROOFING—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., rejected bids Nov. 13, waterproofing U. S. Veterans Hospital. Noted Nov. 22.

Bids Asked

Mass., Nantucket—RADIO TOWERS—Dec. 12, by Dist. Pub. Wks. Office Bldg., Navy Yard, 2 steel radio towers, at Surfside Station. Noted Nov. 29.

N. Y., Brooklyn—CABLE—Dec. 20, by O. I. C. Signal Corps Procurement, Dist. of New York, 58th St. and 1st Ave., 184,820 ft. various telephone cable.

Del., Cape Henlopen — ROAD and TRESTLES — Spec. 5696 — Dec. 19, by Bureau Yards & Docks, Navy Dpt., Wash., D. C. cinder and timber trestles, at Naval Radio Compass Station. Noted Nov. 29.

D. C., Wash. — DISTRIBUTION SYSTEM—Dec. 18, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., new steam distribution system, at U. S. Veterans Hospital, Mt. Alto.

D. C., Wash.—STEEL HULL—Dec. 20, by U. S. Engineer Office, 1068 Navy Bldg., constructing steel hull, for 18 in. pipe line dredge.

D. C., Wash.—VAULT DOORS—Dec. 22, by A. L. Flint, comr. Genl. Purchasing Officer, Panama Canal, vault doors and vault lining.

D. C., Wash.—INTERNAL REVENUE—Jan. 15 (extended date), at office Supervising Archt., Wash., D. C., internal revenue building (except elevators). J. A. Wetmore, acting superv. archt. Noted Nov. 22.

Va., Yorktown — SPRINKLER SYSTEM—Spec. 5684—Dec. 12, by Bureau Yards & Docks, Navy Dpt., Wash., D. C., automatic sprinkler system and fire resisting partitions at Naval Mine Dpt. Noted Nov. 15.

Ala., Tuskegee—ACUTE BUILDING—Dec. 27, by U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., constructing Acute Building, incl. walks, drainage, etc., at U. S. Veterans Hospital.

La., New Orleans—EARTHWORK—Dec. 10, by U. S. Engineer Office, River Front and Burdette St., 1,250,000 cu.yd. earthwork in New Orleans River Dist.

Canal Zone — RADIO MASTS and TOWER—Spec. 5737—Jan. 16 (extended date), by Bureau Yards & Docks, Navy Dpt., Wash., D. C., radio masts and tower, at Naval Radio Station, La Palma and Puerto Obaldio, Panama and Darien. Noted Nov. 15.

Bids Received

Me., Fort Williams — BUILDINGS — Quartermaster, constructing 13 buildings, from Thomas Skinner Co., Inc., South Portland, $27,772.

Mass., Bedford—ACUTE BUILDING—U. S. Veterans Bureau, Arlington Bldg., Wash., D. C., Nov. 27, acute building, officers duplex quarters and utilities building, from J. S. Greenwood, 260 Tremont St., Boston, $320,984 (320 days); elevator, from Warsaw Elevator Co., Warsaw, N. Y., $3,890. Noted Oct. 25.

N. Y., Brooklyn—DREDGING—U. S. Engineer Office, Army Bldg., 39 Whitehall St., New York, Nov. 26, 77,800 cu.yd. Newtown Creek, from Morris & Cummings Dredging Co., 15 Moore St., New York, at $0.72 per cu.yd. Noted Nov. 15.

N. Y., Elmira—POST OFFICE—Treas. Dpt., at office Supervising Archt., Wash., D. C., extending U. S. Post Office, from Agostini Bros., Arcade Bldg., Norfolk, Va., $189,806. Noted Nov. 8.

Pa., Lancaster—POST OFFICE—Treas. Dpt., at office Supervising Archt., Wash., D. C., Nov. 26, 2 story, basement post office, from A. Blair, 1st Natl. Bank Bldg., Montgomery, Ala., $359,900. Noted Nov. 1.

Md., Annapolis — TURBO-GENERATOR — Spec. 2529 — Bureau Yards & Docks, Navy Dpt., Wash., D. C., Nov. 28, turbo-generator and auxiliary equipment at U. S. Naval Academy, from General Electric Co., River Rd., Schenectady, N. Y., $40,100. Noted Nov. 15.

Ind., Anderson — EXTENSION — Treas. Dpt., at office Supervising Archt., Wash., D. C., Nov. 30, extension, remodeling U. S. Post Office here, from C. Weitz Sons, 713 Mulberry St., Des Moines, Ia. Noted Nov. 1.

South Dakota—DRAINS—Bureau Reclamation, Dpt. Interior, Newell, 23 mi. open drains and drainage structures on Belle Fourche Project from Metropolitan Constr. Co., Omaha, Neb., $58,971. Noted Oct. 25.

Contracts Awarded

N. Y., New York—HULL—U. S. Engineer Office, one 121 ft. steel hull steam driven patrol vessel, to Spedden Shipbuilding Co., Inc., Boston and Kenmore Aves., Baltimore, Md.

Pa., Phila. — DREDGING SLEEVES — U. S. Engineer Office, rubber dredging sleeves, to Goodyear Tire & Rubber Co., Inc., East Market St., Akron, O., $14,232.

Pa., Pittsburgh—LOCK—U. S. Engineer Office, Lock 7, Allegheny River to Dravo Contg. Co., Neville Island, Pittsburgh, Pa., $719,035. Noted Nov. 29.

D. C., Wash.—BARGES—U. S. Engineer Office, 1069 Navy Bldg., 2 steel barges at U. S. Engineer's Wharf to Atlantic Ellis Channel System, Inc., 33 Rector St., New York, $19,500. Noted Nov. 29.

D. C., Wash. — WARMING UP PLATFORM — Spec. 5792 — Bureau Yards & Docks, Navy Dpt., warming-up platform at Anacostia Naval Air Station to G. B. Mullin Co., Inc., 1296 Upshur St., N. W., $5,998. Noted Nov. 22.

N. C., Wilmington—STEEL BARGES—U. S. Engineer Office, testing and delivering 2 steel barges to Bethlehem Shipbuilding Corp., 25 Bway., New York, $14,890. Noted Oct. 25.

S. C., Charleston—STEEL LIGHTER—Superintendent of Lighthouses, 100 ton steel lighter, to J. S. Schofield's Sons Co., Macon, Ga., $7,893 (100 days). Noted Oct. 11.

Mississippi — CURRENT RETARDS — U. S. Engineer Office, Memphis, Tenn., in Mississippi River, to Woods Bros. Constr. Co., 132 South 113th St., Lincoln, Neb., $243,240. Noted Oct. 18.

Miss., Corinth — EXTENSION — Treas. Dpt. at office Supervising Archt., Wash., D. C., extending U. S. Post Office, to C. Weitz Sons, 713 Mulberry St., Des Moines, Ia., $56,700 (300 days). Noted Nov. 22.

Ark., Conway—POST OFFICE—Treas. Dpt., at office supervising archt., Wash., D. C., post office, to C. Weitz's Constr. Co., 713 Mulberry St., Des Moines, Ia., $79,560 (365 days). Noted Nov. 29.

Unclassified

Proposed Work

STORAGE TANKS, GARAGE and OFFICE—**Stamford, Conn.**—Standard Oil Co. of New York, 370 7th Ave., New York, sketches, storage tanks, garage and office, South St. Private plans.

SWIMMING POOL — **Belmar, N. J.** — Belmar Ultra Violet Swimming Pool Corp. rejected bids, 2 story, 170 x 184 ft., brick, steel, Ocean and 5th Aves. $300,000. Will probably revise plans. C. B. Cook, Asbury Park Trust Bldg., Asbury Park, archt. Noted Nov. 1.

LAND DEVELOPMENT—**North Plainfield** (mail Plainfield), **N. J.**—Radio Home Builders, 180 Bway., New York, laying out new streets, grading, community house, dwellings, north of Greenbrook Ave. between Clinton and Rock Ave. $200,000. Private plans.

BULKHEAD—**Oceanport, N. J.**—Oceanport Park Co., A. L. Lacombe, pres., 666 Lyon Ave., Irvington. timber bulkhead $25,000. Engineer not selected.

SWIMMING POOL — **Spring Lake** (Spring Lake Beach P. O.), **N. J.**—Bd. Boro Council, Boro Hall, 50 x 100 ft. rein.-con., glazed brick swimming pool, 2 story, 120 x 275 ft. pavilion, Salem, Ocean and Atlantic Aves. $150,000. E. H. Schmieder, 1109 3rd Ave., Spring Lake, engr. Noted Nov. 22.

STADIUM — **Wash., D. C.** — District Comrs., District Bldg., plans by A. L.

Unclassified Work (Continued)

Harris, municipal archt., Municipal Bldg., stadium at McKinley High School, 2nd and T Sts. N.E.

PIER—**Miami Beach** (br. Miami) **Fla.**—Million Dollar Pier Corp., C. R. K. Carter, pres., preliminary plans by W. F. Brown, Lincoln Rd., pier, Biscayne Ave. and Ocean Dr. $300,000.

GAS LINE — **Tennessee** — Memphis Natural Gas Co., subsidiary Union Utilities, Inc., 57 William St., New York, surveys natural gas line from Memphis to Nashville. $8,000,000.

PACKET BOAT—**Jeffersonville, Ind.**—J. Howard, c/o Howard Shipyard & Dock Co., preliminary plans 200-cabin, diesel engine driven, steel-hull, side-wheel Mississippi River Packet Boat. Private plans.

GOLF LINKS, etc.—**Peoria, Ill.**—City Park Bd. improvements to North Moor Golf Links, incl. club houses, pavilion. $25,000. M. G. Newman, pres.

FACTORY EQUIPMENT—**Montgomery, Minn.**—Minnesota Valley Canning Co. soon takes bids equipment for canning factory, deep well, pumping equipment, motors, wiring, mechanical transmission lines, stokers, smoke stack, pipe fittings, valves. $90,000. R. W. Richardson, 301 Zenith Bldg., St. Paul, engr.

SUBWAY—**Rochester, Minn.**—City and Chicago & Northwestern Ry. Co., W. J. Towne, ch. engr., Chicago, Ill., subway at 1st Ave. N. W. $134,000. C. H. Armstrong, city engr.

WHARF—**Kansas City, Mo.**—City surveys wharf. $500,000. W. F. Schultz Eng. Co., Shrine Bldg., Memphis, Tenn., engrs. Noted May 24.

STEAM and HOTWATER LINES — **Koch, Mo.**—City of St. Louis, c/o Bd. P. Serv., City Hall, soon takes bids underground steam and hot water lines, incl. trenching, backfilling, manholes, extending electric wiring in distribution system of Robert Koch Hospital. $26,750. Private plans.

NATURAL GAS DISTRIBUTING SYSTEM—**Carrizo Springs, Tex.**—J. G. Pundt, Carrizo Springs, or Frost Bldg., San Antonio, granted franchise natural gas distributing system, incl. mains, laterals, etc. $35,000. Private plans.

TRANSMISSION LINE, etc.—**Luther, Okla.**—R. K. Johnston, 1016 Colcord Bldg., Oklahoma City, granted franchise electric transmission line and distribution system. $25,000. Private plans. Noted Nov. 1.

FISH HATCHERY—**Tishomingo, Okla.**—Bd. of Affairs, Capitol, Oklahoma City, preliminary plans fish hatchery on Pennington Creek. $40,000. R. O. Weems, warden.

GAS MAINS—**Colorado Springs, Colo.**—City Council extending gas system, incl. 14 mi. new mains, 12 regulator stations. $425,000. F. O. Ray, city engr.

GRAIN ELEVATOR—**Seattle, Wash.**—Port Comn., 1,235,000 bu. grain elevator, incl. 48 main bins, 64 x 284 ft., steel, concrete structure, Smith Cove. $900,000. J. R. West, port engr.

TUNNEL — **California** — Hy. Dist. Alameda Co. (Oakland) and Contra Costa Co. (Martinez) having surveys made for Broadway tunnel. $1,500,000. To be financed by a district now being organized. G. A. Posey, Court House, Oakland, engr.

TUNNEL—**Berkeley, Calif.**—Regents of University of California, tunnel across campus for traffic for Euclid Ave. from Memorial Stadium $500,000-$700,000.

LIGHTING SYSTEM—**Monrovia, Calif.**—City Council lighting system, incl. Marbelite type lighting post on Seymour Pl., Scenic Dr., Encinitas, Ivy and Hillcrest Aves. O. A. Gierlich, city engr.

POLICE SIGNAL SYSTEM — **St. John, N. B.**—City installing police signal system. $41,765.

GRAIN ELEVATOR — **Meaford, Ont** — Town, 1,000,000 bu. grain elevator, concrete Waterfront. $400,000. C. D. Howe & Co., 712 Whalen Bldg., Port Arthur, engrs.

POWER DEVELOPMENT — **Winnipeg, Man.** — Hydro-Electric System, 55 Princess St., J. G. Glassoo, genl. mgr., voted $6,500,000, power house, dam and regulating spillways, 4 transmission line circuits 80 mi. long between Winnipeg and Slave Falls, 6 mi. transmission tie line of two 66,000 volt circuits between Pointe Du Bois and Slave Falls on Winnipeg River. Noted Oct. 25.

Bids Asked

BUS TERMINAL—**Fall River, Mass.**—Interstate Limited Motor Coach Co., A. P. Russell, South Station, Boston, taking bids 1 story, brick, Pocasset St. $25,000 or more. Private plans. Noted Mar. 15.

GREENHOUSES and BOILER HOUSE — **Woburn, Mass.** — See "Contracts Awarded."

GOLF COURSE and CLUB HOUSE—**Meriden, Conn.**—Dec. 10, at office W. L. de Bussy, mayor, City Hall, golf course and club house. $33,430. R. J. Ross, 575 New Britain Ave., Hartford, engr.

PILE DRIVER—**New York, N. Y.**—Dec. 13, by M. Cosgrove, Comr. Docks, foot Battery Pl., North River, constructing and furnishing new pile driver, Contr. 1924.

SUBWAY—**New York, N. Y.**—Dec. 28, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., constructing Sects. 1 and 2, Route 103, Rapid Transit R.R.

TRACK MATERIALS—**New York, N. Y.**—Dec. 14, by Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., track materials (Order 12) for use in construction Rapid Transit Railroad.

BOARDWALK—**Rye, N. Y.**—Dec. 18, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, extending timber boardwalk, new boardwalk, concrete retaining wall, wood foundation piles for adjacent buildings, at "Playland," Rye Beach and Manursing Island Park. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. Dec. 6.

LOCKERHOUSE—**Yonkers, N. Y.**—Dec. 19, by Westchester Co. Park Comn., 72 West Pondfield Rd., Bronxville, locker house building at Sprain Brook Golf Course. J. Downer, Bronxville, ch. engr.; adv. E. N.-R. Dec. 6.

HEATING, etc.—**North Bergen** (Ind. br. Weehawken) **N. J.**—Dec. 13, by Bd. Educ., Township Hall, heating and ventilating for Horace Mann School, Hudson Blvd., Midway Pl. and 38th and 39th Sts. $64,000. Former bids rejected. R. Glenn, town engr. Noted Nov. 29.

GRADE CROSSING ELIMINATION — **Phila., Pa.**—Dec. 19, at Office C. Dillenbeck, ch. engr., 505 Reading Terminal, elimination grade crossing along Norristown Branch of Reading Co. between Wissahickon Creek and Fountain St., Contrs. 3, 6, 7 and 9; adv. E. N.-R. Dec. 6.

GAS LINE—**Tennessee and Louisiana**—See "Contracts Awarded."

LAMP STANDARDS — **Chicago, Ill.** — Dec. 12, by M. J. Kennedy, comr. Gas & Electricity, City Hall, ornamental C. I. lamp standards.

Bids Received

SPECIAL WORK—**New York, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., Nov. 27, special work (rails, frogs and switches), Order 46, from Bethlehem Steel Co., 25 Bway., $36,990; and Order 47, from Lorain Steel Co., 71 Bway., $35,714. Noted Nov. 22.

WHARF SHEDS—**New Orleans, La.**—Bd. Comrs. Port of New Orleans, New Court House, Nov. 20, St. Andrews Wharf Sheds to uniform widths, incl. 320 tons structural steel, from Virginia Bridge & Iron Co., Whitney Bldg., New Orleans, $25,326. Noted Nov. 15.

Contracts Awarded

UNLOADING PLATFORM and FREIGHT HOUSE—**Malden** (br. Boston), **Mass.**—Boston & Maine R.R. Co., W. J. Backes, ch. engr., Boston, 175 ft., brick, steel loading platform, and 1 story, 30 x 150 ft., freight house, to Pitman & Brown Co., 7 Washington St., Salem. Noted Nov. 15.

GREENHOUSES and BOILER HOUSE —**Woburn, Mass.**—N. Anderson, 71 Middle St., 3 glass, timber greenhouses, 80 x 500 ft., and 1 story, brick boiler house, Middle St., separate contracts.

FIRE ALARM SYSTEM — **Brooklyn, N. Y.**—J. J. Dorman, fire comr., Municipal Bldg., New York, portion underground fire alarm system, Fort Hamilton Impvt., to W. F. Kenny Co., 44 East 23rd St., $20,293, and to Waterbury Cable Serv. Co., 329 East 162nd St., $21,250. Noted Nov. 15.

SUBWAY—**Brooklyn, N. Y.**—Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., New York, Sect. 5-A, Route 109, Rapid Transit R.R., to C. Petrillo Co., East Chester Creek and Boston Rd., New York, $2,019,977. Noted Nov. 22.

ELECTRICAL WORK — **Kings Park, N. Y.** — Commissioner Mental Hygiene, Albany, electrical work, rewiring buildings, B, C and D, Kings Park State Hospital to Waldman & Co., Inc., 224 East 41st St., New York, $18,394. Noted Oct. 4.

DUCT LINE — **New York, N. Y.** — Bd. Transportation, J. H. Delaney, chn., 49 Lafayette St., duct line in Isham St. between Bway. and Substation 1, 10th Ave. near Isham St., to E. T. Barry, 126-06 139th Ave., Laurelton, $39,035. Noted Nov. 22.

PIERS—**New York, N. Y.**—A. Goldman, comr. Plant & Structures, Municipal Bldg., piers for Ludlow Avenue Bridge over Bronx River, to E. O. Roberts Co., Inc., 52 Vanderbilt Ave., $294,400. Noted Nov. 8.

FIRE SPRINKLERS — **Poughkeepsie, N. Y.** — Commissioner Mental Hygiene, Capitol, Albany, covering automatic fire sprinklers at Hudson River State Hospital to Empire Automatic Sprinkler Co., 1042 University Ave., Rochester, $30,487. Noted Oct. 4.

STADIUM—**Richmond, Va.**—Bd. Stadium Trustees, J. A. Cutchins, chn., Grace Securities Bldg., (1st unit) stadium, Belmont Ave. near Byrd Park, to J. T. Wilson & Co., Inc., Mutual Bldg., $97,125.

GOLF COURSE — **Macon, Ga.** — Junior Chamber of Commerce, 18 hole, golf course, on Columbus Rd. near here, to Mangham Constr. Co., Macon, $40,000.

GAS LINE—**Tennessee and Louisiana**—Memphis Natural Gas Co., subsidiary Union Utilities, Inc., 57 William St., New York, 18 in. natural gas pipe line from Memphis, Tenn., to Monroe, La., separate contracts and day labor. Est. $8,000,000.

FIELD HOUSE — **Columbus, O.** — Bd. Educ., general contract 40 x 110 ft. field house for East High School, in Eastgate Addition, to F. L. Mattheas, 427 East Dunedin Rd., $16,500; plumbing, to Stai Plumbing Co., 270 East Livingston Ave., $2,834; heating and electrical work, to S. A. Esswin Plumbing & Heating Co., 546 West Broad St., $1,550. Noted Nov. 15.

CAUSEWAY — **Youngstown, O.** — F. A. LaBelle, secy., 901 City Bank Bldg., Austintown Causeway, Contr. 9, to Pitt Constr. Co., Empire Bldg., Pittsburgh, Pa., $144,000. Est. $150,000. Noted July 26.

ELECTRIC DISTRIBUTION SYSTEM—**St. Charles, Minn.**—S. F. Clarkson, city clk., electric distribution and lighting systems, to Donovan Constr. Co., 402 Builders Exch., St. Paul, $31,910. Noted Oct. 25.

TANKS—**Houston, Tex.**—Roxana Petroleum Corp., Shell Bldg., St. Louis, Mo., 130 tanks from 1,000 to 118,000 bbl. capacity, for refinery near here, to Chicago Bridge & Iron Co., 105th and Throop Sts., Chicago, Ill.; 12,000 tons steel for above, awarded to U. S. Steel Corp., 71 Bway., New York.

Materials

Bids Asked

MOTOR OIL, etc.—**Long Island City, N. Y.**—Dec. 13, by B. M. Patten, pres. Queens Boro, Queens Subway Bldg., 25,000 gal. motor oil in drums; 300,000 gal. gasoline in drums; and 80,000 gal. fuel oil.

HIGHWAY MATERIAL, etc. — **New York, N. Y.**—Dec. 12, by P. J. Dooling, comr. Purchase, Municipal Bldg., highway, roofing, and building materials to Dpts. Correction, Parks & Structures, Public Welfare, Water Supply, Gas & Electricity, and Fire and Police Dpts.

LUMBER and PILES—**New York, N. Y.**—Dec. 14, by P. J. Dooling, comr. Purchase, Municipal Bldg., lumber and piles to Bellevue & Allied Hospitals, Dpts. Correction, Docks, Parks, Plant & Structures, Street Cleaning and Police.

ROAD OIL — **Roseville, Ill.** — Point Pleasant Twp. purchasing 10 cars road oil for spring 1929. A. Woodward, Roseville, hy. comr.

BRIDGE LUMBER — **Chariton, Ia.** — Dec. 10, at office Auditor Lucas Co., 149,250 ft. untreated and 27,640 ft. treated bridge lumber, 8,164 ft. piling. A. R. Bartell, Chariton, co. engr.

CRUDE OIL—**Fresno, Calif.**—Dec. 14, by D. M. Barnwell, clk. Fresno Co., 125,000 bbl. natural crude oil, unprocessed. C. P. Jensen, Holland Bldg., co. surv.

Foreign

S. A., Colombia — Baldwin Locomotive Wks., engrs. and representing owners, 500 North Bridge St., Phila., Pa., taking bids all kinds machine and shop tools and machinery for locomotive repair shops at Cali. $2,000,000. N. W. Semple, Jr., in charge.

See proposal advertising on page 151

Constr. News page 311

UNIT PRICES

Unit Price Lists Published in November, 1928

		Issue of
Bridge	Baltimore, Md.	Nov. 1
Bridge	Florida	Nov. 15
Dam	Pittsburgh, Pa.	Nov. 8
Dam	Graham, Tex.	Nov. 8
Paving	Portland, Ore.	Nov. 22
Pier	Long Beach, Calif.	Nov. 15
Sewage treatment plant and relief trunk sewer	Red Bank, N. J.	Nov. 8
Sewerage system	Star City, W. Va.	Nov. 15
Sewerage system	Port Gibson, Miss.	Nov. 22
Sewers	Syracuse, N. Y.	Nov. 22
Water-works	Oakland, Calif.	Nov. 1

Road—Missouri

State Highway Commission, Jefferson City, opened bids Sept. 14, F. A. Project No. 10, Cole Co., 4.365 mi. concrete road, 20 ft. wide. Bidders are: (A) Atkinson Paving Co., Watertown, S. D.; (B) Pope Construction Co., Jefferson City. T. H. Cutler, chief engineer.

	A	B
10,843 cu.yd. class C excav.	$0.40	$0.35
72,317 cu.yd. jetting fills	.05	.04
51,968 sq.yd. port. cement conc.	.93	1.00
114 lin.ft. 12 in. V.C. pipe	1.75	2.50
635 lin.ft. conc. curb and gutter	.70	1.00
534 lin.ft. conc. gutter	.85	.60
352 lin.ft. 46 in. conc. flume	1.50	.80
398 lin.ft. 71 in. conc. flum	2.00	1.00
1 manhole sta. Ot. 37	75.00	75.00
5 manhole ring and cover	15.00	30.00
4 lamphole ring and cover	12.00	15.00
3 drop inlet complete	50.00	75.00
Totals	$59,444	$61,482

Engineering News-Record, Issue of December 6, 1928.

Lock and Dam—Hastings, Minn.

U. S. Engineer Office, Arcade Bldg., St. Paul, opened bids Sept. 27, lock and dam in Mississippi River near Hastings. Work consists of furnishing materials and labor for, and constructing fixed parts of lock including upper and lower guide walls; movable dam including abutment; Taintor gates and bridge; earth dam including core walls; stone paving and esplanade; some incidental metal work. Bidders are: (A) Fegles Construction Co., Ltd., 520 Sexton Bldg., Minneapolis, (awarded contract); (B) Northern States Contracting Co., St. Paul; (C) Wood Bros. Construction Co., Lincoln, Nebr.; (D) A. Guthrie & Co., Inc., St. Paul; (E) Siems, Helmers & Schaffner, St. Paul; (F) Dravo Contracting Co., Pittsburgh; (G) U. G. I. Contracting Co., Philadelphia; (H) Byllesby Engineering & Management Corp., Chicago.

LOCK

	A	B	C	D	E	F	G	H
721 lin.ft. lock—cofferdam, per lin.ft. of permanent work	$126.00	$132.00	$108.00	$210.00	$175.00	$150.00	$125.00	$250.00
851 lin.ft. guide walls—cofferdam, per lin.ft. of permanent work	25.00	132.00	108.00	210.00	40.00	150.00	64.00	250.00
40,000 cu.yd common excavation	.36	.70	.75	1.00	.80	1.20	1.00	1.50
14,000 cu.yd. fill	.575	.28	.35	.90	.40	.50	.40	1.50
22,600 cu.yd. class "A" concrete	11.82	8.85	12.30	10.75	13.00	16.00	15.00	14.50
19,400 cu.yd. class "B" concrete	9.90	8.17	12.05	10.25	12.30	14.00	15.00	14.00
4,000 cu.yd. riprap	4.74	5.60	4.55	3.75	3.00	6.00	6.00	8.00
177,000 lin.ft. timber piles	.52	.63	.56	.36	.60	.60	.85	.80
60,000 sq.ft. steel sheet piles	1.39	1.37	1.35	1.50	1.62	2.00	1.95	2.00
120,000 ft. B.M. common timber	76.50	80.00	70.00	85.00	70.00	100.00	130.00	120.00
2,200 ft. B.M. oak timber	257.00	210.00	300.00	130.00	200.00	250.00	340.00	300.00
130,000 lb. structural steel	.08	.11	.09	.06	.08½	.12	.12	.07
44,000 lb. reinforcing rods	.056	.05	.05	.05	.057	.06	.07	.05
1,800 lb. forgings	.147	.20	.25	.15	.20	.24	.17	.15
200 lb. cast iron	.115	.15	.15	.08	.10	.12	.12	.10
7,600 lb. cast steel	.246	.30	.25	.19	.25	.30	.20	.30
8,300 lb. bolts	.124	.15	.12	.09	.12	.20	.13	.10
600 lb. pipe railing and fitt ngs	.31	.35	.25	.19	.25	.40	.65	.25
4 tile gages	676.00	1,000.00	500.00	500.00	1,000.00	300.00	890.00	2,000.00
Totals	$808,070	$810,089	$912,572	$960,117	$961,334	$1,169,426	$1,133,596	$1,331,310

MOVABLE DAM

822 lin.ft. cofferdam, per lin.ft. of completed work	$82.30	$137.00	$82.00	$210.00	$155.00	$250.00	$200.00	$175.00
43,000 cu.yd. common excavation	.34	.70	.75	1.00	.80	.30	.40	1.50
5,000 cu.yd. fill	.676	.28	.35	.90	.40	.50	.60	1.50
10,500 cu.yd. riprap	5.43	5.60	4.55	3.75	3.00	6.00	6.00	8.00
4,000 cu.yd. derrick stone	4.75	5.25	5.00	3.25	3.50	7.00	6.00	8.00
55,000 lin.ft. timber piles	.563	.63	.56	.36	.53	.60	1.00	8.00
34,000 sq.ft. steel sheet piles	1.49	1.37	1.35	1.50	1.62	2.00	1.74	2.00
347,000 ft. B.M. common timber	77.00	80.00	70.00	85.00	70.00	100.00	130.00	120.00
1,500 ft. B.M. oak timber	263.00	210.00	300.00	130.00	200.00	300.00	340.00	300.00
4,000 cu.yd. class "A" concrete	13.40	8.85	12.30	10.75	12.90	25.00	15.00	14.50
13,000 cu.yd. class "B" concrete	10.40	8.17	12.05	10.25	12.20	12.00	15.00	14.00
290,000 lb. structural steel	.074	.11	.08	.06½	.076	.12	.12	.07
10,000 lb. reinforcing rods	.055	.05	.05	.05	.057	.07	.07	.05
65,000 lb. forgings	.11	.20	.15	.09½	.12	.18	.10	.15
7,500 lb. cast iron	.151	.15	.20	.12	.145	.30	.12	.10
6,400 lb. cast steel	.23	.30	.25	.18	.25	.30	.20	.30
20,000 lb. bolts	.105	.15	.12	.09	.065	.20	.13	.10
8,000 lb. pipe railing and fittings	.159	.35	.20	.12	.25	.30	.65	.25
20 taintor gates	5,270.00	4,680.00	6,000.00	4,550.00	5,270.00	8,000.00	8,500.00	3,900.00
Totals	$599,740	$622,674	$637,019	$670,572	$670,127	$921,820	$980,360	$841,160

EARTH DAM

225,000 cu.yd. embankment	$0.422	$0.55	$0.40	$0.47	$0.26	$0.40	$0.57	$0.75
170 cu.yd. class "A" concrete	18.00	15.00	12.30	13.25	18.40	25.00	35.00	14.50
85,750 sq.ft. steel sheet piles	1.29	1.37	1.35	1.50	1.65	1.50	1.57	2.00
27,000 sq.yd. stone paving	2.94	2.50	2.75	2.00	2.80	2.50	2.65	3.00
Totals	$288,007	$311,277	$282,103	$290,627	$359,715	$290,375	$340,377	$423,715
Grand totals	$1,695,819	$1,744,041	$1,831,695	$1,921,317	$1,991,177	$2,381,621	$2,382,334	$2,596,185

Engineering News-Record, Issue of December 6, 1928.